

RF Components and Accessories General Catalogue



NOTICE

General Information

The informations and components/systems description contained in this catalog, are correct at the time of publication. Delta Meccanica, however, maintains a policy of continuous improvement of its products to increase reliability and performances, for these reasons Delta Meccanica reserves the right at any time to discontinue or change specifications, designs, features, models or equipments without incurring in obligation.

The illustrations reported on this catalog show the typical construction, they may not represent full detail or an exact shape of the equipments.

General technical features

All equipments are built employing materials having best R.F. response, like aluminum, brass and copper. Beryllium copper is used for some contacts like fingers.

All manufacturing processes are under control so that parameters and tolerances are fully comply with the related design.

Each device is shipped complete with the factory test report. All device have serial number so that will be easier to delivery, even after many years from the delivery date, if required, the right spare parts, and customers may also ask for a copy of the original factory test report we maintain in our records.

High-mech for high-tech

Delta Meccanica is a high-mechanics Italian company specialised in design and manufacture of coaxial systems for broadcasting applications. Matching CAD technology with highly skilled personnel experience is the spirit that underlines our design, manufacture and control activities. All our products are always built in compliance with the tough specifications released by radio and TV broadcasters, technical committees, all over the world

System integration solutions

Nowadays the technology integration in the telecommunication field is moving quickly; the pervasion of information technology and interconnecting network will produce tangible benefits. Our experience, use of a flexible design techniques and a close contact with our customers give us the knowledge to contribute to this convergence. Delta Meccanica offers a strong capability in the system engineering integration of radiating system, radio frequency filters, transmitting system and any other ancillary devices.



Year	2002
Product	3x4kW UHF Constant Impedance Combiner with Broad Band filtered
Customer	A.V.T
Country	Guadalupe



Year	2003
Product	8X1kW FM Twin Combiner System
Customer	S.R.G
Country	France

Simplicity and strength

Delta Meccanica stands for simplicity and rationality. Our products are the final result of innovative design and reliable manufacturing technologies. We therefore guarantee long lasting duration and quality/price best compromise.

Business activities

Delta Meccanica, besides its traditional activity related to design and manufacture of passive components for RF applications, has recently developed and widened its area of interest towards precision mechanics and mechanic components for electronic, aeronautic and food industry.

Broadcast products and services:

- RF filters and patch panel for analog and digital signals
- RF combiners for analog and digital signals
- RF couplers and ancillary devices
- RF systems customised design

Experience, quality and service

Delta Meccanica was founded in the 1991 year by highly skilled technicians specialised in mechanics and electronics; today the company is certified according to ISO 9001 standard.

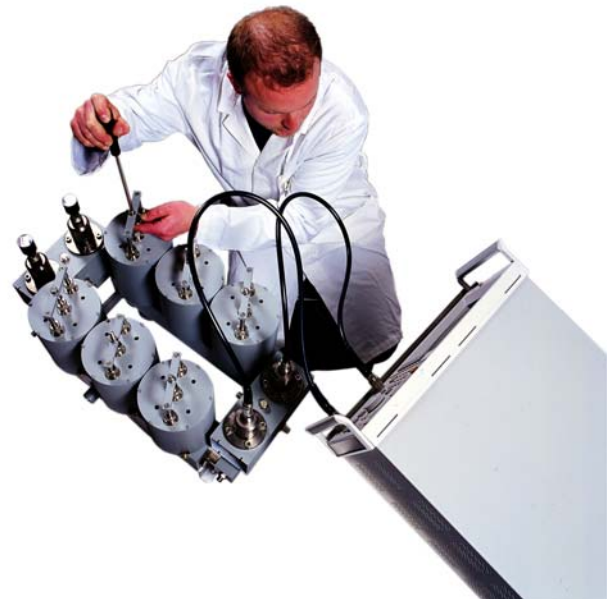
Our long lasting experience gives us the right knowledge and sensibility to offer our customers flexible and smart solutions. Every need is met also with tailor-made products. All our products are continuously checked and tested during manufacture and set-up activities.



Year	2000
Product	8X1kW FM Radio Combiner
Customer	Towercast
Country	France



Standard Product 4x1.2kW FM Star Point Combiner



PRODUCT INDEX

o Passive components

- Coaxial Rigid Line
- Elbows
 - Unflanged Elbows
 - Flanged/Unflanged Elbows
 - Flanged Elbows
- Inners - Anchor Insulator Connectors
- Flanges
- Straight Adaptors
- Coaxial Adaptors

o Directional Couplers

o Hybrid Couplers

o Dummy Loads

o Motorized coaxial switches

o Patch Panels

o Switching units

o Custom products

o Warranty

Note:

Delta Meccanica offers many solutions of RF systems and components, seek for the others catalogues

FM-Radio Band Filters and Combiners

PRODUCT INDEX

o FM-Radio Low Pass Filters

o FM-Radio Band Pass Filters

- FM Band Pass Filters double cavity
- FM Band Pass Filters triple cavity

o DAB Filters

o Notch Filters

o FM-Radio Combiners

- FM-Radio Star Combiner
- FM-Radio Constant Impedance Combiner

o Custom Products

VHF/UHF Band Filters and Combiners

PRODUCT INDEX

o VHF/UHF Band Pass + Notch Filters

o DVB Filters

o Notch Filters

o Channels TV Combiners

- VHF Channels Combiners
- UHF Channels Combiners

o UHF Low Power Multiplexer

o DVB Combiners

o Audio/Video Combiners

o Custom Products

PASSIVE COMPONENTS

Passive Components and Coaxial rigid line

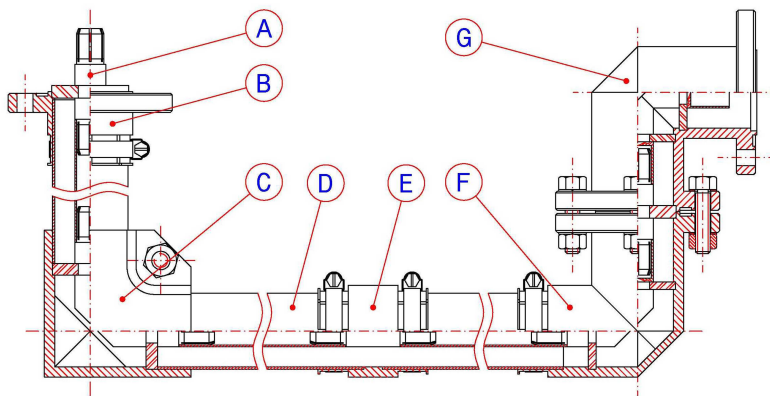
Delta Meccanica produces a wide range of accessories for professional broadcasting applications, we may supply almost all the items (elbows, reducers, flanges, coupling elements etc.etc.) you need between transmitter and antenna system.

Our devices are built in aluminum, brass and copper, and have chemical or galvanic surface treatments to improve the R.F. performances. All the components are obtained starting from a single solid piece of aluminum or brass, and some items, i.e. elbows, are manufactured by fusions.

The components dimensions refers to IEC 339/EIA standards, and they may be coupled with components of others suppliers, if also these ones are built according to the over reported standards.

PLEASE READ CAREFULLY: In case of order, please always specify, if the items must be used for outside or inside applications, because the solutions are different. The clamping (unflanged) configuration may never be used for outside applications.

Typical arrangement scheme of various passive components



Legend of the scheme

- A) Anchor insulator connector (inner)
- B) Flange with clamping connection
- C) Elbow with clamping connections
- D) Coaxial rigid line
- E) Straight adaptor
- F) Elbow one side flanged the other with clamping connection
- G) Flanged elbow

Coaxial Rigid Lines

Our coaxial rigid lines are in copper, (7/8" – 1 5/8" - 3 1/8" exist also with outer conductor in aluminum, only for indoor applications), and are comply with IEC 339-2 50-EIA standard. The bars' standard have a maximum length (for shipment reason) from 2,5 to 3 m (around 8-10 feet), on request we may supply longer bars (not longer than 6 m – 20 feet).

Normally the standard items are sold without inner conductor supports, because usually our customers cut the line in many short pieces, where the internal spacers are no necessary. Instead if you have to use the line in pieces with a length greater than 1,5m. (but consider that this value depends on the coaxial rigid line's diameter Ref. to our: "Rigid Lines User Manual"), it's necessary to install the inner conductor supports inside the line, to avoid the inner pipe downswing, making worse the VSWR.

Please note: items in compliance with IEC 339-2 50-EIA standards, are required to have only flanged connections, different connection types, for example the ones we define as "clamping connection" (each Company defines them in different ways) are not standardized, for that it may be not possible to connect devices from different Company.

PLEASE READ CAREFULLY: Customers are kindly request to specify, on their RFQ, the employ conditions of the rigid line he wants to order, so in this way we are able to suggest the right configuration to choose. Furthermore when the total length exceed 6 m (around 20 feet) and the connecting system needs many accessories like several elbows-reducers-straight adaptors etc, it could be necessary to use some line matching to recover a good R.F. performances.

If Customer doesn't specify anything, we will delivery only the coaxial line pipes.

Coaxial Rigid Lines

Coaxial Rigid Lines (C.R.L.)

Our C.R.L. are in copper and are comply with IEC 339-2 50-EIA standards. The bar standard maximum length (for shipment reason) is between 2,5 to 3 mt. (around 8-10 feet). On request we can supply longer bars (not longer than 6 mt. – 20 feet).

ALUMINUM vs. COPPER:

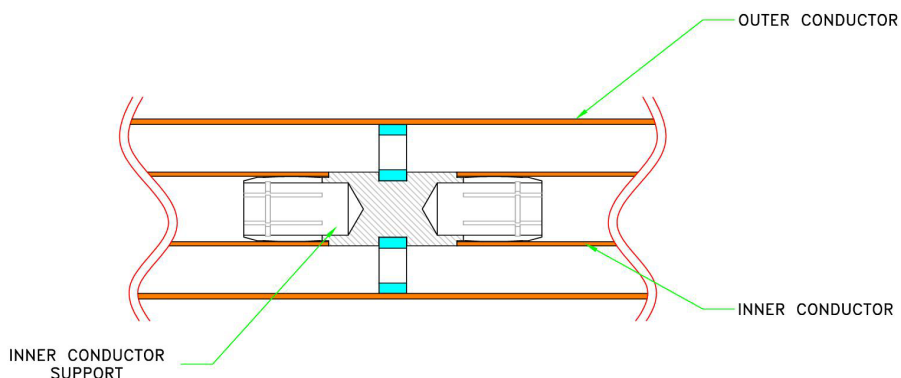
3 1/8" exists also with outer conductor in aluminum, but this solution is only for indoor applications. For C.R.L. in aluminum of smaller dimensions, we stopped to supply them, because the dimensions, in millimeter, differ, even if only slightly, from those reported by the EIA standards, for example. for 1 5/8 ", EIA requires a 41.3x38.8 mm tube, the commercial dimensions are 41x39 mm, as far as RF performance is concerned, they are the same, but it may happen that the aluminum line does not go well enough with accessories of different brands, moreover the difference in price between the line in copper or in aluminum is little.

Normally the standard items are sold without inner conductor supports, because usually our customers cut the line in many short pieces (the length is often less than 1 mt, around 39"), instead if you have to use the line in pieces with a length greater than 1,5mt. (You have to consider that this value depends on the C.R.L. diameter – Ref. to our "Rigid Lines User Manual"), it's necessary to install the inner conductor supports inside the line to avoid the inner pipe downswing, making worse the VSWR.

Please note: items in compliance with IEC 339-2 50-EIA standards, are required to have only flanged connections, different connection types, for example the one we define as "clamping connection" (each Company defines them in different ways) are not standardized, for that it may not be possible to connect them with devices from another Company.

PLEASE READ CAREFULLY: Customers are kindly request to specify, on their RFQ, the employ conditions of the rigid line he wants to order, so in this way we are able to suggest the right configuration to choose, furthermore when the total length exceed 6 mt, (around 20 feet), and the connecting system needs many accessories like several elbows-reducers-straight adaptors etc., it could be necessary to use some line matching to recover a good radiofrequency performance. If Customer doesn't specify anything, we'll delivery two tubes.

Here below is shown the special inner conductor support for the spacing between coaxial lines:



Product description **7/8" Rigid Line**



Part Number	78-0000
Impedance [Ohm]	50
Weight [Kg]	0.9 Kg/m

Product description **1 5/8" Rigid Line**



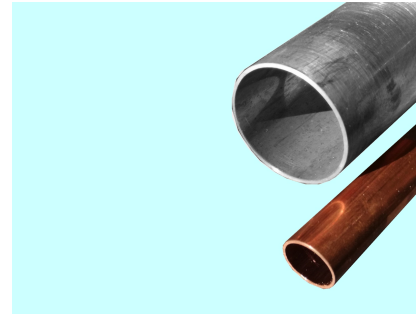
Part Number	158-0000
Impedance [Ohm]	50
Weight [Kg]	2.1 Kg/m

Product description **3 1/8" Rigid Line**



Part Number	318-0000
Impedance [Ohm]	50
Weight [Kg]	4 Kg/m

Product description **3 1/8" Rigid Line with aluminum outer conductor**



Part Number	318-0000-AL
Impedance [Ohm]	50
Weight [Kg]	2 Kg/m

Product description **4 1/2" Rigid Line**



Part Number	412-0000
Impedance [Ohm]	50
Weight [Kg]	5.7 Kg/m

Product description **6 1/8" Rigid Line**



Part Number	618-0000
Impedance [Ohm]	50
Weight [Kg]	9.8 Kg/m

ELBOWS

Delta Meccanica manufactures many elbow types to respond to the different applications customers may encounter during installation.

Flanged elbows: are female, and both flanges swivel.

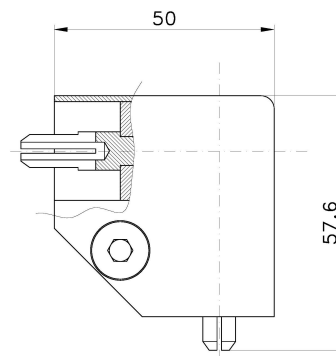
Unflanged elbows: connections are male, so it's possible to connect directly the rigid line, without adding other coupling elements. This device cannot be used for outdoor installation.

Unflanged-Flanged Elbows: this device has a side unflanged, where it's possible a direct connection with the rigid line, the other one is flanged. This is a very useful and cheap solution. This device cannot be used for outdoor installation.

Unflanged Elbows

Product description **Unflanged elbow**

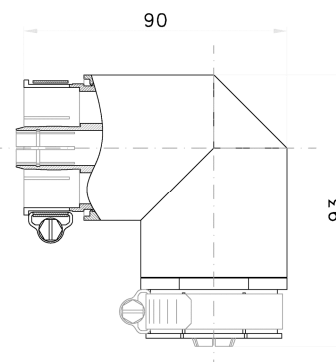
Part Number	1167
Impedance [Ohm]	5
Connectors	7/8"
Weight [kg.]	0.12



Overall dimensions [WxDxH] [mm.] 58x25x58

Product description **Unflanged elbow**

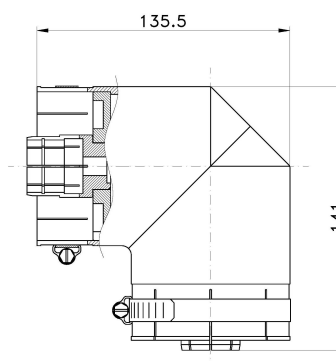
Part Number	1169
Impedance [Ohm]	50
Connectors	1 5/8"
Weight [kg.]	0.45



Overall dimensions [WxDxH] [mm.] 85x50x85

Product description **Unflanged elbow**

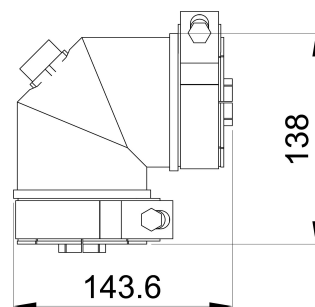
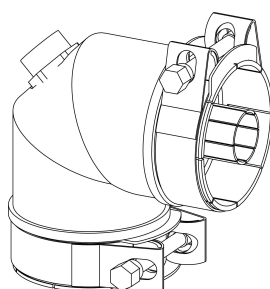
Part Number	1127-U
Impedance [Ohm]	50
Connectors	3 1/8"
Weight [kg.]	1.7



Overall dimensions [WxDxH] [mm.] 141x85x141

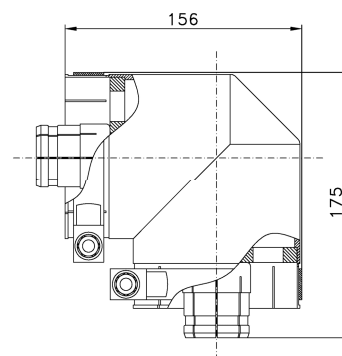
Product description **Unflanged elbow with tuning screw**

Part Number	1127-U-TS
Impedance [Ohm]	50
Connectors	3 1/8"
Weight [kg]	1.9



Product description **Unflanged elbow**

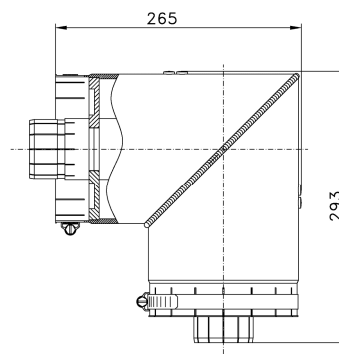
Part Number	1314
Impedance [Ohm]	50
Connectors	4 1/2"
Weight [kg.]	3.9



Overall dimensions [WxDxH] [mm.] 175x110x175

Product description **Unflanged elbow**

Part Number	1643
Impedance [Ohm]	50
Connectors	6 1/8"
Weight [kg.]	8

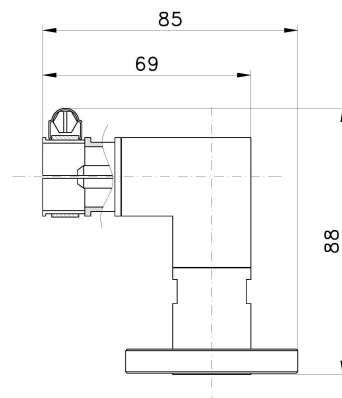


Overall dimensions [WxDxH] [mm.] 293x162x293

Flanged/Unflanged Elbows

Product description **Flanged/Unflanged elbow**

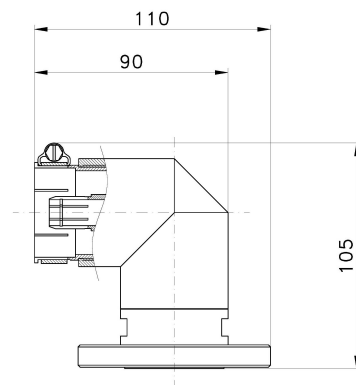
Part Number	1007
Impedance [Ohm]	50
Connectors	EIA 7/8"
Weight [kg.]	0.45



Overall dimensions [WxDxH] [mm.] 85x58x88

Product description **Flanged/Unflanged elbow**

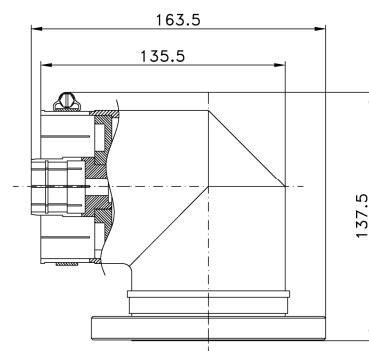
Part Number	1000
Impedance [Ohm]	50
Connectors	EIA 1 5/8"
Weight [kg.]	0.9



Overall dimensions [WxDxH] [mm.] 110x90x105

Product description **Flanged/Unflanged elbow**

Part Number	1127-FU
Impedance [Ohm]	50
Connectors	EIA 3 1/8"
Weight [kg.]	1.9



Overall dimensions [WxDxH] [mm.] 163.5x130x137.5

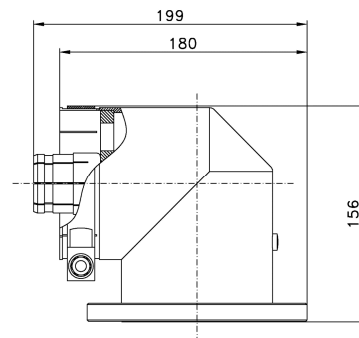
Product description **Flanged/Unflanged elbow**

Part Number **1315**

Impedance [Ohm] 50

Connectors EIA 4 1/2"

Weight [kg.] 3.5



Overall dimensions [WxDxH] [mm.] 199x160x156

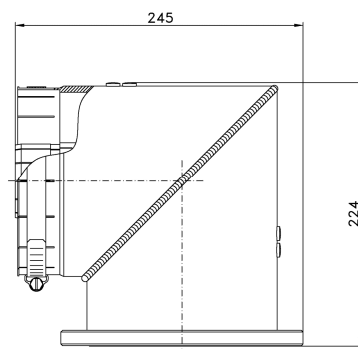
Product description **Flanged/Unflanged elbow**

Part Number **1721**

Impedance [Ohm] 50

Connectors EIA 6 1/8"

Weight [kg.] 7



Overall dimensions [WxDxH] [mm.] 245x206.5x224

Flanged Elbows

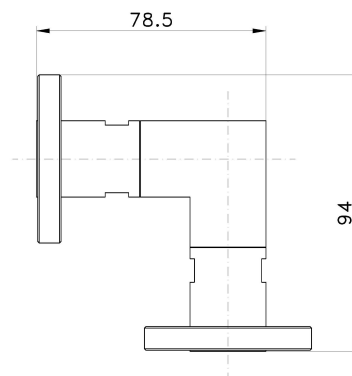
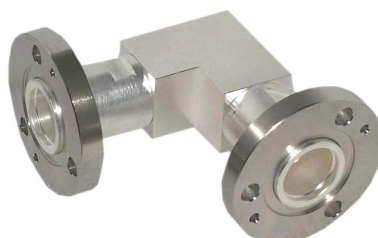
Product description **Flanged elbow**

Part Number **1033**

Impedance [Ohm] 50

Connectors EIA 7/8"

Weight [kg.] 0.5



Overall dimensions [WxDxH] [mm.] 94x58x94

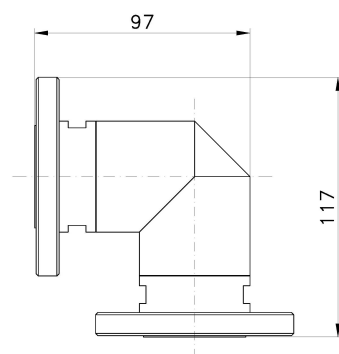
Product description **Flanged elbow**

Part Number **1028**

Impedance [Ohm] 50

Connectors EIA 1 5/8"

Weight [kg.] 1.05



Overall dimensions [WxDxH] [mm.] 117x90x117

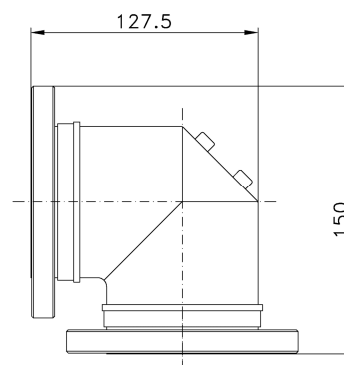
Product description **Flanged elbow**

Part Number **1083**

Impedance [Ohm] 50

Connectors EIA 3 1/8"

Weight [kg.] 2.3



Overall dimensions [WxDxH] [mm.] 150x130x150

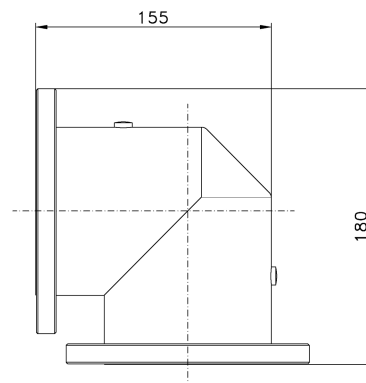
Product description **Flanged elbow**

Part Number **1399**

Impedance [Ohm] 50

Connectors EIA 4 1/16"

Weight [kg.] 3.5



Overall dimensions [WxDxH] [mm.] 180x160x180

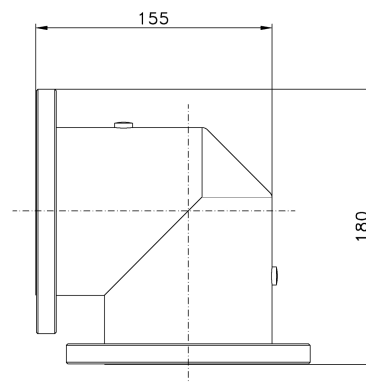
Product description **Flanged elbow**

Part Number **1313**

Impedance [Ohm] 50

Connectors EIA 4 1/8"

Weight [kg.] 3.5



Overall dimensions [WxDxH] [mm.] 180x160x180

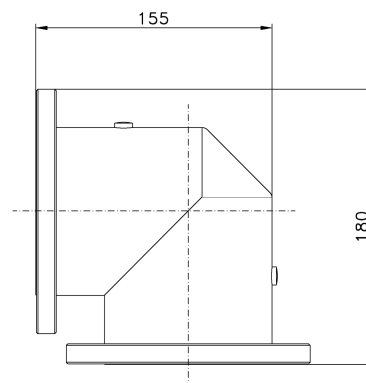
Product description **Flanged elbow**

Part Number **1312**

Impedance [Ohm] 50

Connectors EIA 4 1/2"

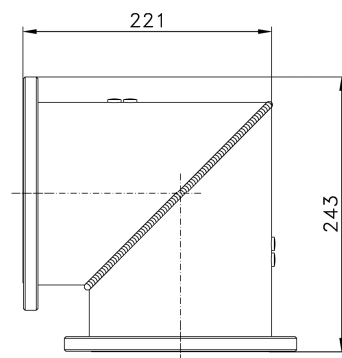
Weight [kg.] 3.6



Overall dimensions [WxDxH] [mm.] 180x160x180

Product description **Flanged elbow**

Part Number	1642
Impedance [Ohm]	50
Connectors	EIA 6 1/8"
Weight [kg.]	5.2



Overall dimensions [WxDxH] [mm.] 243x206.5x243

Inners Anchor Insulator Connectors

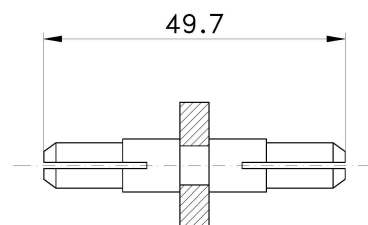
Product description **Inner - Anchor Insulator Connector**

Part Number **1016**

Impedance [Ohm] 50

Connectors EIA 7/8"

Weight [kg.] 0.02



Overall dimensions [WxDxH] [mm.] 49.7x20.7x20.7

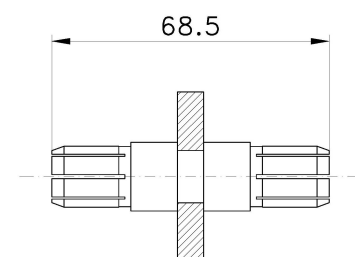
Product description **Inner - Anchor Insulator Connector**

Part Number **1022**

Impedance [Ohm] 50

Connectors EIA 1 5/8"

Weight [kg.] 0.08



Overall dimensions [WxDxH] [mm.] 68.5x41.7x41.7

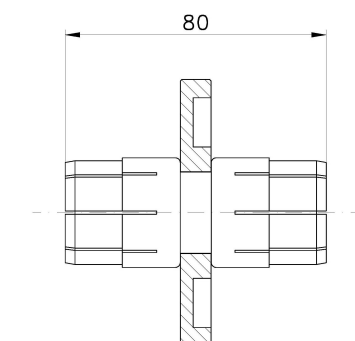
Product description **Inner - Anchor Insulator Connector**

Part Number **1014**

Impedance [Ohm] 50

Connectors EIA 3 1/8"

Weight [kg.] 0.27



Overall dimensions [WxDxH] [mm.] 80x81.2x81.2

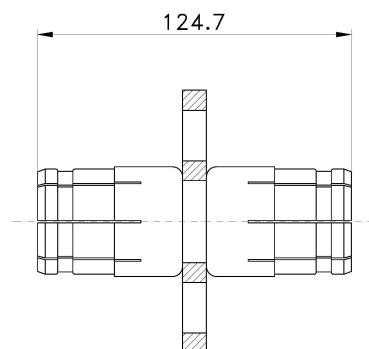
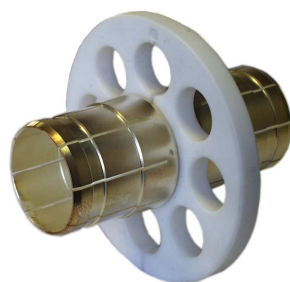
Product description **Inner - Anchor insulator connector**

Part Number **1398**

Impedance [Ohm] 50

Connectors EIA 4 1/16"

Weight [kg.] 0.45



Overall dimensions [WxDxH] [mm.] 124.7x104x104

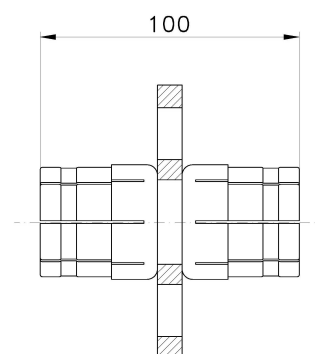
Product description **Inner - Anchor insulator connector**

Part Number **1174**

Impedance [Ohm] 50

Connectors EIA 4 1/8"

Weight [kg.] 0.4



Overall dimensions [WxDxH] [mm.] 100x105.4x105.4

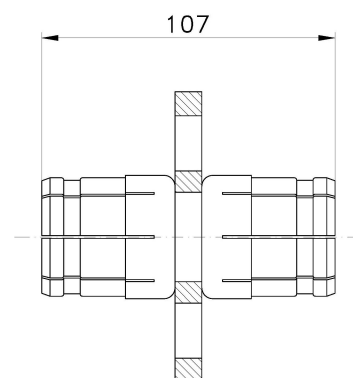
Product description **Inner - Anchor insulator connector**

Part Number **1310**

Impedance [Ohm] 50

Connectors EIA 4 1/2"

Weight [kg.] 0.45



Overall dimensions [WxDxH] [mm.] 107x105.5x105.5

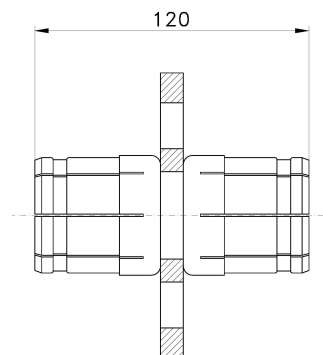
Product description **Inner - Anchor insulator connector**

Part Number **1323**

Impedance [Ohm] 50

Connectors EIA 4 7/8"

Weight [kg.] 1



Overall dimensions [WxDxH] [mm.] 120x124x124

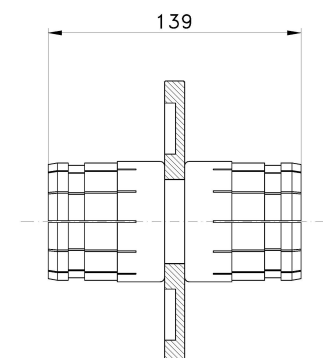
Product description **Inner - Anchor insulator connector**

Part Number **1175**

Impedance [Ohm] 50

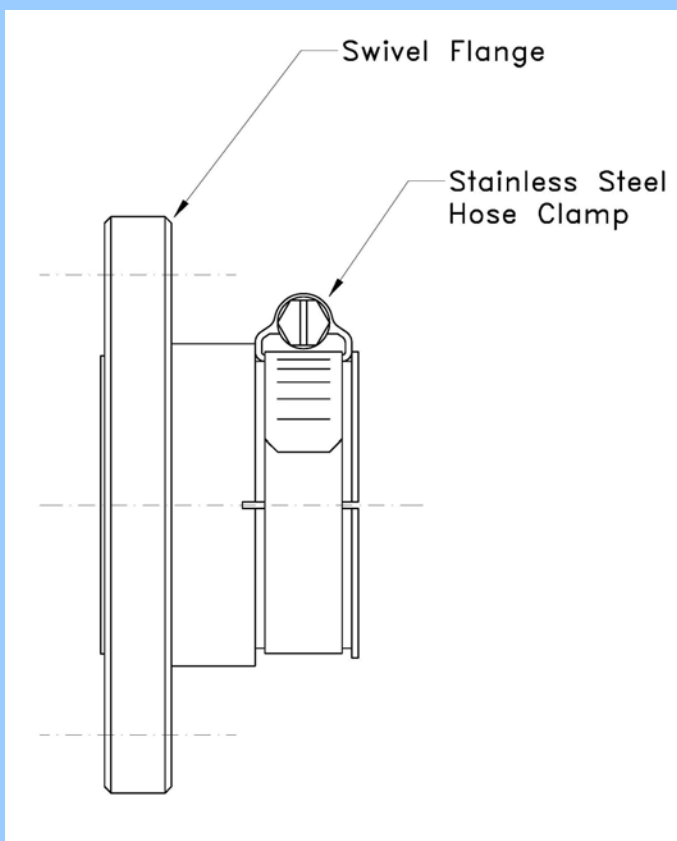
Connectors EIA 6 1/8"

Weight [kg.] 1.5



Overall dimensions [WxDxH] [mm.] 139x154.2x154.2

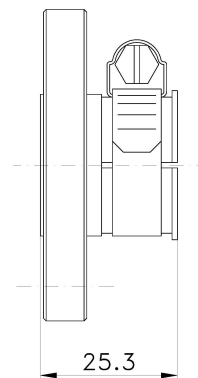
FLANGES



Delta Meccanica can supply two different types of flanges, the first one are "Clamping flanges", the installation is quite simple and fast, it's sufficient to tight a screw. This device cannot be used for outdoor installation. The second one are "Soldering flanges" (on request). These devices must be used for outdoor applications, and customer is requested to make a soft soldering on field, there are two types, one has the flange fixed, the other one has a swivel flange.

Product description **Flanges with clamping connection**

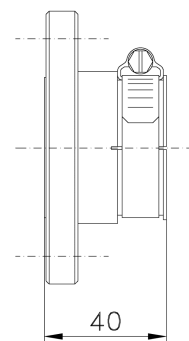
Part Number	1130
Impedance [Ohm]	50
Connectors	EIA 7/8"
Weight [kg.]	0.18



Overall dimensions [WxDxH] [mm.] 58x25.3x58

Product description **Flanges with clamping connection**

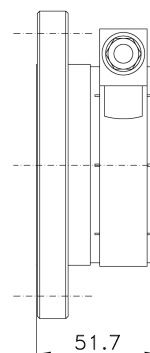
Part Number	1023
Impedance [Ohm]	50
Connectors	EIA 1 5/8"
Weight [kg.]	0.5



Overall dimensions [WxDxH] [mm.] 90x40x90

Product description **Flanges with clamping connection**

Part Number	1069
Impedance [Ohm]	50
Connectors	EIA 3 1/8"
Weight [kg.]	0.95



Overall dimensions [WxDxH] [mm.] 130x51.7x130

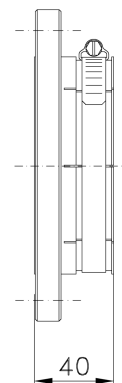
Product description **Flanges with clamping connection**

Part Number **1362**

Impedance [Ohm] 50

Connectors EIA 4 1/16"

Weight [kg.] 1.1



Overall dimensions [WxDxH] [mm.] 157.5x40x157.5

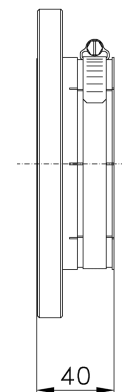
Product description **Flanges with clamping connection**

Part Number **1170**

Impedance [Ohm] 50

Connectors EIA 4 1/8"

Weight [kg.] 1.2



Overall dimensions [WxDxH] [mm.] 160x40x160

Product description **Flanges with clamping connection**

Part Number **1318**

Impedance [Ohm] 50

Connectors EIA 4 1/2"

Weight [kg.] 1.4



Overall dimensions [WxDxH] [mm.] 160x51.5x160

Product description **Flanges with clamping connection**

Part Number **1324**

Impedance [Ohm] 50

Connectors EIA 4 7/8"

Weight [kg.] 1.6



Overall dimensions [WxDxH] [mm.] 176x55x176

Product description **Flanges with clamping connection**

Part Number **1131**

Impedance [Ohm] 50

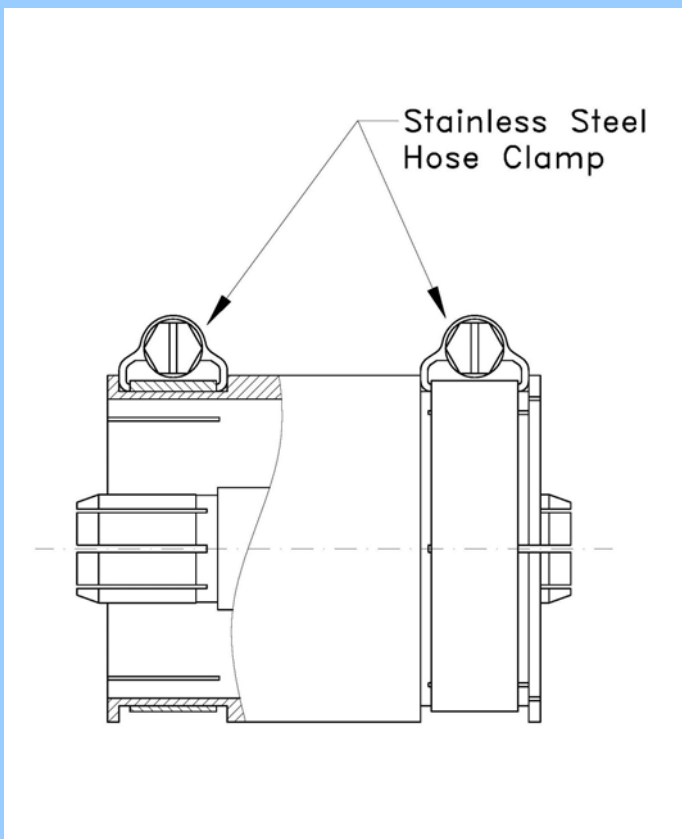
Connectors EIA 6 1/8"

Weight [kg.] 2.8



Overall dimensions [WxDxH] [mm.] 206.5x62.5x206.5

STRAIGHT ADAPTORS (Coupling Assembly with Inner)



This item is employed for coupling 2 or more rigid line bars, to have a straight line longer than 3 m. The adapter has 2 pieces, an inner connector to link the inner conductors, and an outer sleeve to connect the outer conductors, tightening is obtained by means of two stainless steel hose clamps, one in each side. This device cannot be used for outdoor installation.

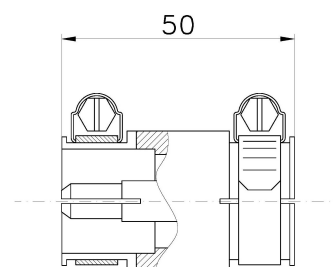
Product description **Straight Adaptors (Coupling assembly with inner)**

Part Number **1171**

Impedance [Ohm] 50

Connectors EIA 7/8"

Weight [kg.] 0.15



Overall dimensions [WxDxH] [mm.] 50x40x40

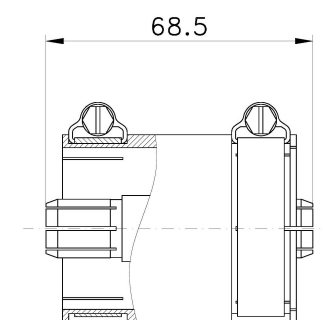
Product description **Straight Adaptors (Coupling assembly with inner)**

Part Number **1172**

Impedance [Ohm] 50

Connectors EIA 1 5/8"

Weight [kg.] 0.25



Overall dimensions [WxDxH] [mm.] 68.5x57x57

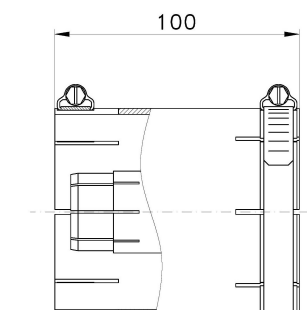
Product description **Straight Adaptors (Coupling assembly with inner)**

Part Number **1129**

Impedance [Ohm] 50

Connectors EIA 3 1/8"

Weight [kg.] 0.8



Overall dimensions [WxDxH] [mm.] 100x95x95

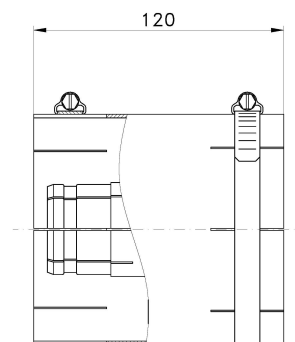
Product description **Straight Adaptors (Coupling assembly with inner)**

Part Number **1311**

Impedance [Ohm] 50

Connectors EIA 4 1/2"

Weight [kg.] 1.3



Overall dimensions [WxDxH] [mm.] 120x122x122

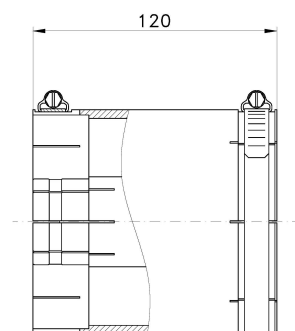
Product description **Straight Adaptors (Coupling assembly with inner)**

Part Number **1244**

Impedance [Ohm] 50

Connectors EIA 4 1/8"

Weight [kg.] 1.2



Overall dimensions [WxDxH] [mm.] 120x120x120

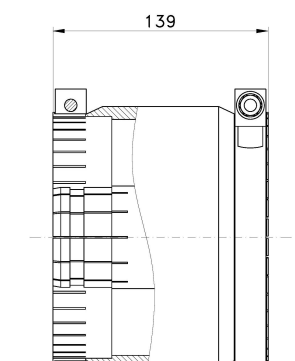
Product description **Straight Adaptors (Coupling assembly with inner)**

Part Number **1245**

Impedance [Ohm] 50

Connectors EIA 6 1/8"

Weight [kg.] 2.5



Overall dimensions [WxDxH] [mm.] 139x180x180

COAXIAL ADAPTORS

Adaptors are used when it's necessary to couple devices with different outputs dimensions and configurations, (i.e. male - male, female - male, female - female), hereafter are reported the devices on standard production, models different may be supplied on request.

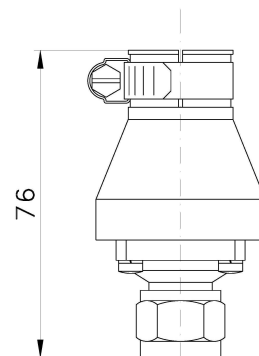
Product description **Adaptor N male > EIA 7/8" male**

Part Number **1372-06**

Impedance [Ohm] 50

Connectors N , EIA 7/8"

Weight [kg.] 0.25



Overall dimensions [WxDxH] [mm.] 42x42x76

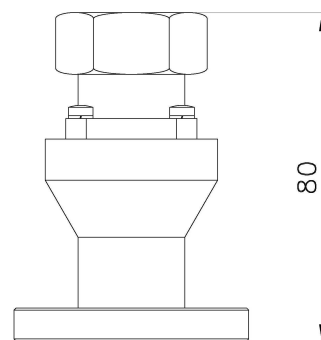
Product description **Adaptor EIA 7/8" female > DIN 7/16 male**

Part Number **1605-M**

Impedance [Ohm] 50

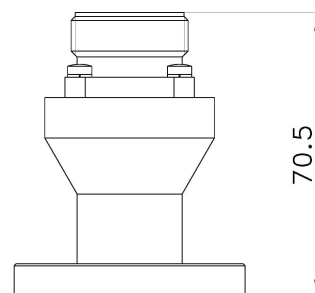
Connectors EIA 7/8" , DIN 7/16

Weight [kg.] 0.4



Overall dimensions [WxDxH] [mm.] 58x58x84

Product description **Adaptor EIA 7/8" female > DIN 7/16 female**



Part Number **1605**

Impedance [Ohm] 50

Connectors EIA 7/8" , DIN 7/16

Weight [kg.] 0.45

Overall dimensions [WxDxH] [mm.] 58x58x70.5

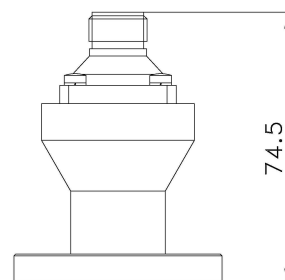
Product description **Adaptor EIA 7/8" female > N female**

Part Number **1605-N**

Impedance [Ohm] 50

Connectors EIA 7/8" , N

Weight [kg.] 0.42



Overall dimensions [WxDxH] [mm.] 58x58x74.5

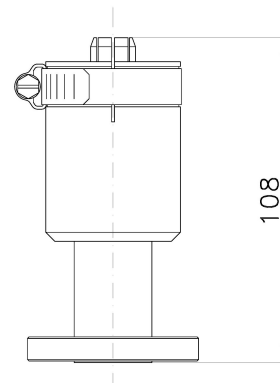
Product description **Adaptor EIA 1 5/8" male > EIA 7/8" female**

Part Number **1166**

Impedance [Ohm] 50

Connectors EIA 1 5/8" , EIA 7/8"

Weight [kg.] 0.5



Overall dimensions [WxDxH] [mm.] 65x65x108

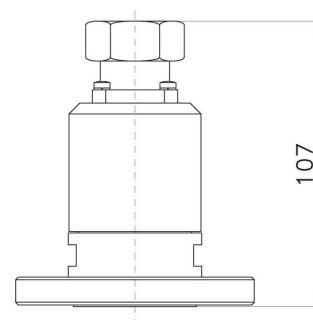
Product description **Adaptor EIA 1 5/8" female > DIN 7/16 male**

Part Number **1177-716M**

Impedance [Ohm] 50

Connectors EIA 1 5/8" , DIN 7/16

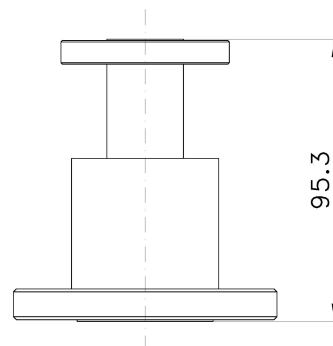
Weight [kg.] 1



Overall dimensions [WxDxH] [mm.] 90x90x107

Product description **Adaptor EIA 1 5/8" female > EIA 7/8" female**

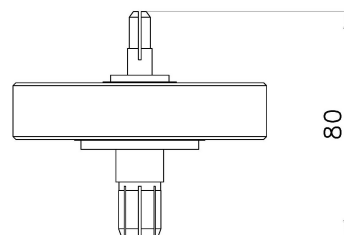
Part Number	1018
Impedance [Ohm]	50
Connectors	EIA 1 5/8" , EIA 7/8"
Weight [kg.]	1



Overall dimensions [WxDxH] [mm.] 90x90x95.3

Product description **Adaptor EIA 1 5/8" male > EIA 7/8" male**

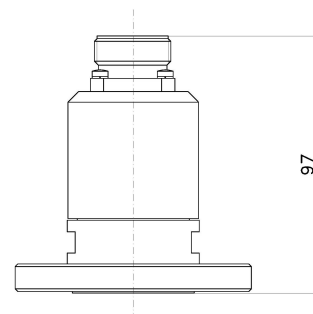
Part Number	1184
Impedance [Ohm]	50
Connectors	EIA 1 5/8" , EIA 7/8"
Weight [kg.]	0.36



Overall dimensions [WxDxH] [mm.] 90x90x80

Product description **Adaptor EIA 1 5/8" female > DIN 7/16 female**

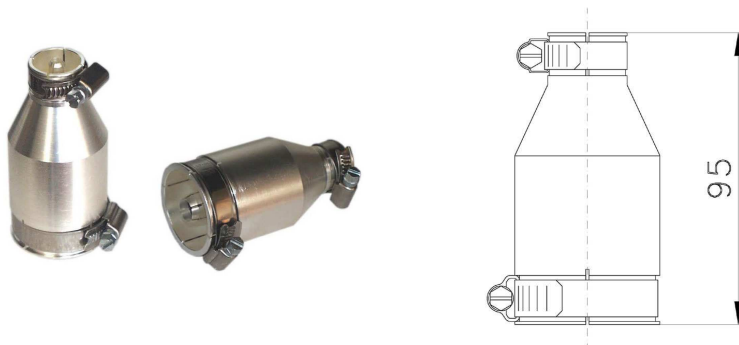
Part Number	1177-716F
Impedance [Ohm]	50
Connectors	EIA 1 5/8" , DIN 7/16
Weight [kg.]	1



Overall dimensions [WxDxH] [mm.] 90x90x97

Product description **Adaptor EIA 1 5/8" male > EIA 7/8" male**

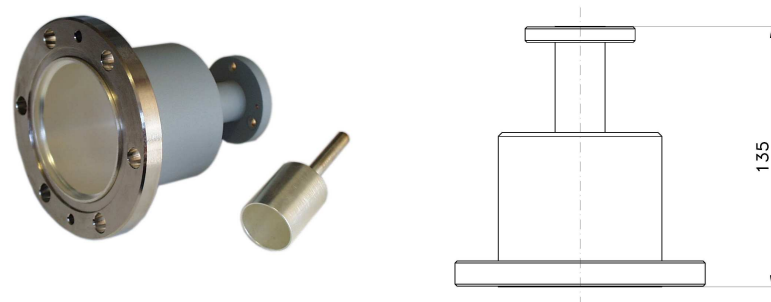
Part Number	1657
Impedance [Ohm]	50
Connectors	EIA 1 5/8" , EIA 7/8"
Weight [kg.]	0.4



Overall dimensions [WxDxH] [mm.] 65x65x95

Product description **Adaptor EIA 3 1/8" female > EIA 7/8" female**

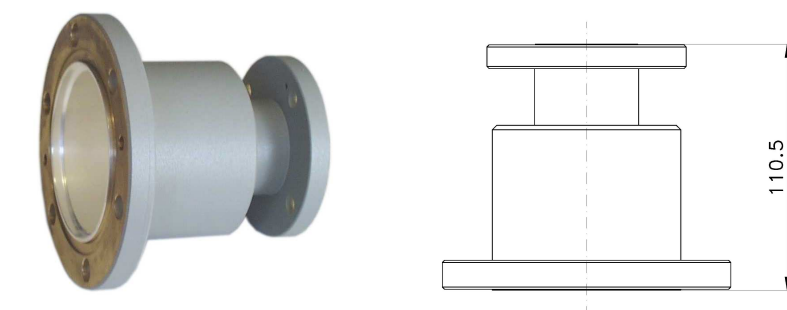
Part Number	1179
Impedance [Ohm]	50
Connectors	EIA 3 1/8" , EIA 7/8"
Weight [kg.]	1.85



Overall dimensions [WxDxH] [mm.] 130x130x135

Product description **Adaptor EIA 3 1/8" female > EIA 1 5/8" female**

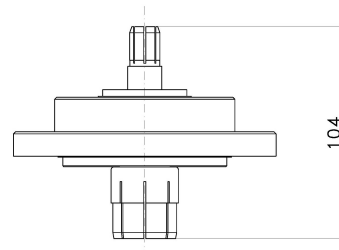
Part Number	1015
Impedance [Ohm]	50
Connectors	EIA 3 1/8" , EIA 1 5/8"
Weight [kg.]	2.2



Overall dimensions [WxDxH] [mm.] 130x130x110.5

Product description **Adaptor EIA 3 1/8" male > EIA 1 5/8" male**

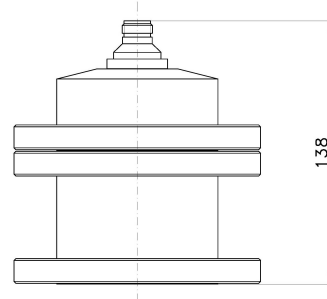
Part Number	1070
Impedance [Ohm]	50
Connectors	EIA 3 1/8" , EIA 1 5/8"
Weight [kg.]	0.75



Overall dimensions [WxDxH] [mm.] 130x130x104

Product description **Adaptor EIA 3 1/8" female > N female**

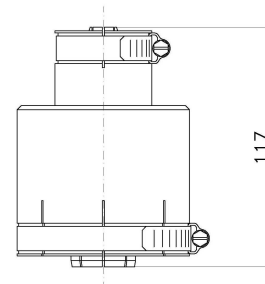
Part Number	1178
Impedance [Ohm]	50
Connectors	EIA 3 1/8" , N
Weight [kg.]	3.3



Overall dimensions [WxDxH] [mm.] 130x130x138

Product description **Adaptor EIA 3 1/8" male > EIA 1 5/8" male**

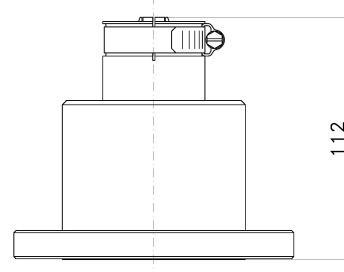
Part Number	1015-02
Impedance [Ohm]	50
Connectors	EIA 3 1/8" , EIA 1 5/8"
Weight [kg.]	2.5



Overall dimensions [WxDxH] [mm.] 95x95x117

Product description **Adaptor EIA 3 1/8" female > EIA 1 5/8" male**

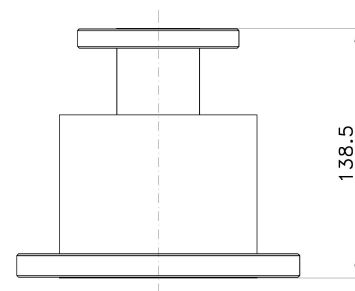
Part Number	1015-03
Impedance [Ohm]	50
Connectors	EIA 3 1/8" , EIA 1 5/8"
Weight [kg.]	1.75



Overall dimensions [WxDxH] [mm.] 130x130x112

Product description **Adaptor EIA 4 1/16" female > EIA 1 5/8" female**

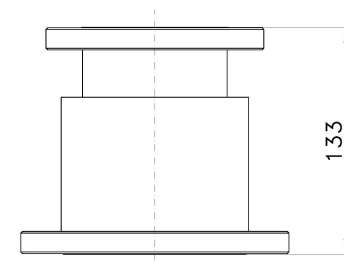
Part Number	1403
Impedance [Ohm]	50
Connectors	EIA 4 1/16" , EIA 1 5/8"
Weight [kg.]	2.7



Overall dimensions [WxDxH] [mm.] 157.5x157.5x138.5

Product description **Adaptor EIA 4 1/16" female > EIA 3 1/8" female**

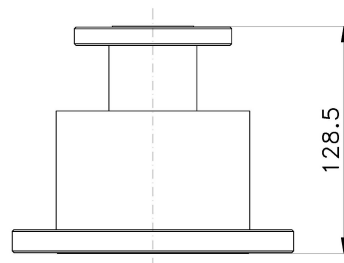
Part Number	1345
Impedance [Ohm]	50
Connectors	EIA 4 1/16" , EIA 3 1/8"
Weight [kg.]	3.2



Overall dimensions [WxDxH] [mm.] 157.5x157.5x133

Product description **Adaptor EIA 4 1/8" female > EIA 1 5/8" female**

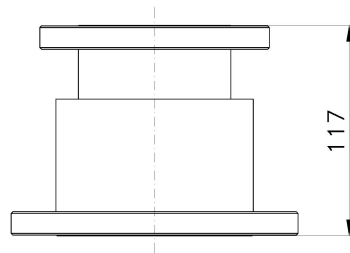
Part Number	1193
Impedance [Ohm]	50
Connectors	EIA 4 1/8" , EIA 1 5/8"
Weight [kg.]	2.6



Overall dimensions [WxDxH] [mm.] 160x160x128.5

Product description **Adaptor EIA 4 1/8" female > EIA 3 1/8" female**

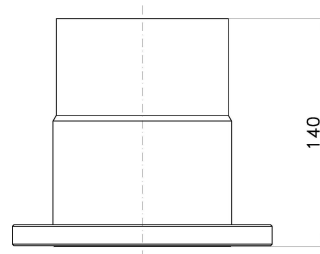
Part Number	1181
Impedance [Ohm]	50
Connectors	EIA 4 1/8" , EIA 3 1/8"
Weight [kg.]	3.1



Overall dimensions [WxDxH] [mm.] 160x160x117

Product description **Adaptor EIA 4 1/8" female > EIA 4 1/2" unflanged**

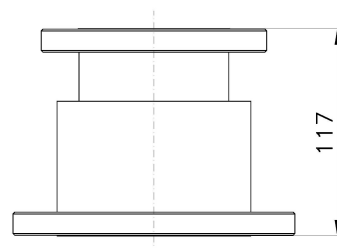
Part Number	1632
Impedance [Ohm]	50
Connectors	EIA 4 1/8" , 4 1/2" unfl.
Weight [kg.]	2.3



Overall dimensions [WxDxH] [mm.] 160x160x140

Product description **Adaptor EIA 4 1/2" female > EIA 3 1/8" female**

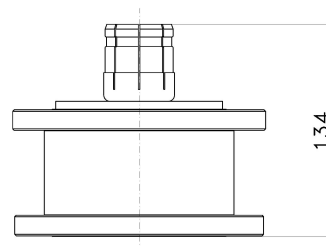
Part Number	1305
Impedance [Ohm]	50
Connectors	EIA 4 1/2" , EIA 3 1/8"
Weight [kg.]	3.15



Overall dimensions [WxDxH] [mm.] 160x160x117

Product description **Adaptor EIA 4 1/2" male > EIA 4 1/16" female**

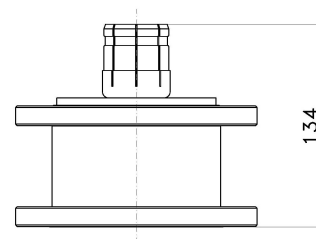
Part Number	1363
Impedance [Ohm]	50
Connectors	EIA 4 1/2" , EIA 4 1/16"
Weight [kg.]	2.2



Overall dimensions [WxDxH] [mm.] 157.5x157.5x134

Product description **Adaptor EIA 4 1/2" male > EIA 4 1/8" female**

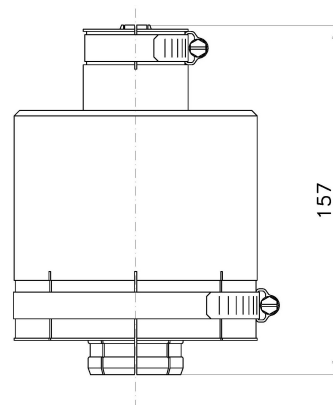
Part Number	1320
Impedance [Ohm]	50
Connectors	EIA 4 1/2" , EIA 4 1/8"
Weight [kg.]	2.5



Overall dimensions [WxDxH] [mm.] 160x160x134

Product description **Adaptor EIA 4 1/2" male > EIA 1 5/8" male**

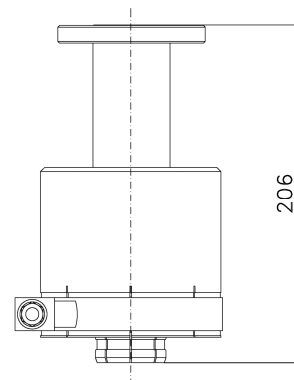
Part Number	1499
Impedance [Ohm]	50
Connectors	EIA 4 1/2" , EIA 1 5/8"
Weight [kg.]	3.5



Overall dimensions [WxDxH] [mm.] 121x121x157

Product description **Adaptor EIA 4 1/2" male > EIA 1 5/8" female**

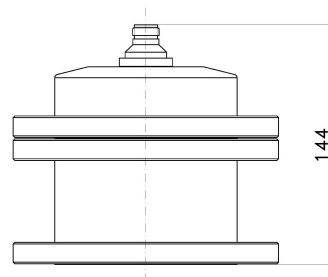
Part Number	1628
Impedance [Ohm]	50
Connectors	EIA 4 1/2" , EIA 1 5/8"
Weight [kg.]	3



Overall dimensions [WxDxH] [mm.] 120x120x205.4

Product description **Adaptor EIA 4 1/2" female > N female**

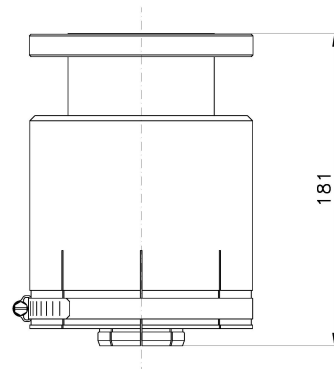
Part Number	1624
Impedance [Ohm]	50
Connectors	EIA 4 1/2" , N
Weight [kg.]	4.3



Overall dimensions [WxDxH] [mm.] 160x160x144

Product description **Adaptor 4 7/8" male > EIA 3 1/8" female**

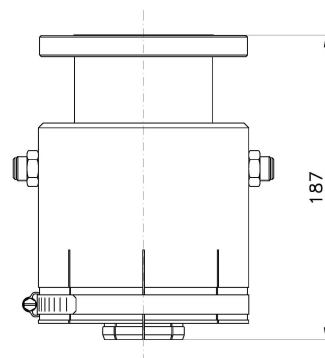
Part Number	1360
Impedance [Ohm]	50
Connectors	4 7/8" , EIA 3 1/8"
Weight [kg.]	2.9



Overall dimensions [WxDxH] [mm.] 140x140x181

Product description **Adaptor 4 7/8" male > EIA 4 1/2" female**

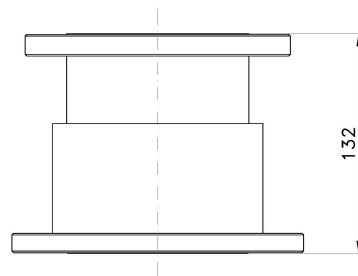
Part Number	1361
Impedance [Ohm]	50
Connectors	4 7/8" , EIA 4 1/2"
Weight [kg.]	3.4



Overall dimensions [WxDxH] [mm.] 140x170x187

Product description **Adaptor 4 7/8" female > EIA 4 1/2" female**

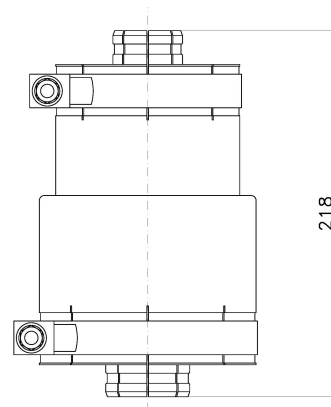
Part Number	1325
Impedance [Ohm]	50
Connectors	4 7/8" , EIA 4 1/2"
Weight [kg.]	3.1



Overall dimensions [WxDxH] [mm.] 176x176x132

Product description **Adaptor 4 7/8" male > EIA 4 1/6" male**

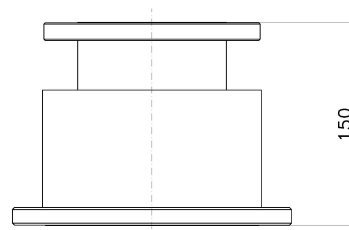
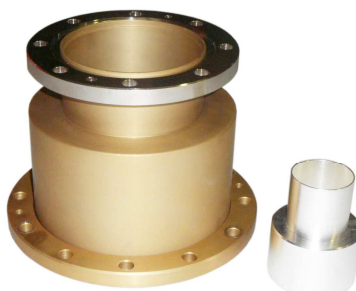
Part Number	1608
Impedance [Ohm]	50
Connectors	4 7/8" , EIA 4 1/16"
Weight [kg.]	3.3



Overall dimensions [WxDxH] [mm.] 146x146x218

Product description **Adaptor EIA 6 1/8" female > EIA 4 1/2" female**

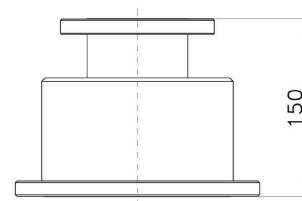
Part Number	1349
Impedance [Ohm]	50
Connectors	EIA 6 1/8" , EIA 4 1/2"
Weight [kg.]	4.8



Overall dimensions [WxDxH] [mm.] 206.5x206.5x150

Product description **Adaptor EIA 6 1/8" female > EIA 3 1/8" female**

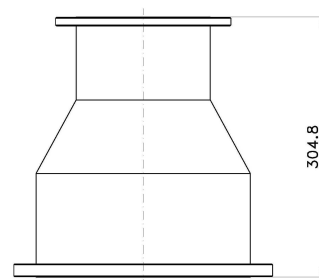
Part Number	1483
Impedance [Ohm]	50
Connectors	EIA 6 1/8" , EIA 3 1/8"
Weight [kg.]	2.4



Overall dimensions [WxDxH] [mm.] 206.5x206.5x150

Product description **Adaptor EIA 9 3/16" female > EIA 6 1/8" female**

Part Number	1637
Impedance [Ohm]	50
Connectors	EIA 9 3/16" , EIA 6 1/8"
Weight [kg.]	6.5



Overall dimensions [WxDxH] [mm.] 304.8x304.8x304.8

DIRECTIONAL COUPLERS

Directional Couplers

Directional couplers

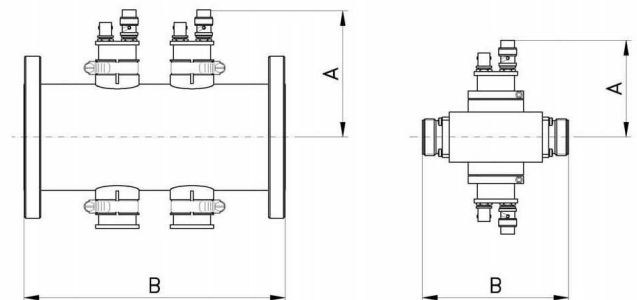
Directional Couplers are equipments designed to perform important Broadcasting measures, like Return loss, RF power, frequency monitoring and filters' performance; furthermore signals coupled from transmission line can be used for alarm circuits.

All the above mentioned measurements are performed, when necessary or continuously monitored, maintaining the system on duty.

Our Directional Couplers are "in line", and are equipped with one probe, or more probes according to the measurements performed by the customer. With one probe it is possible to measure forward and reverse power only changing the external load's position.

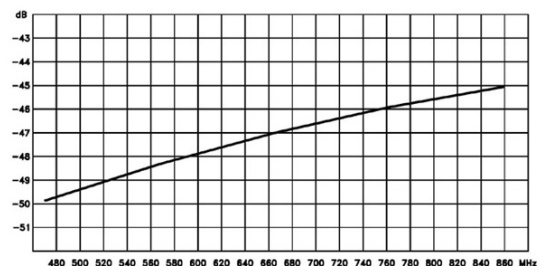
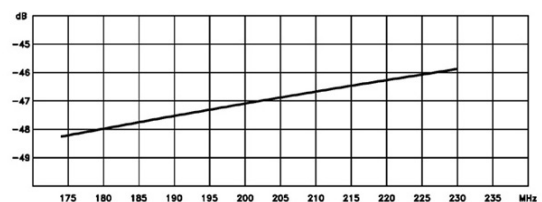
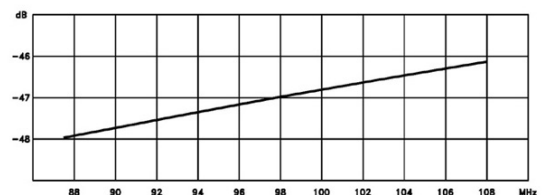
The probe can be adjusted in angle and in height, to obtain the desired value of coupling (between $-70 \div -35\text{dB}$) with high directivity ($>30\text{dB}$).

How to order: in case of order confirmation it is necessary to specify the working Band (FM, VHF or UHF), because mechanical configurations are different. Furthermore if you do not specify the coupling value we will put it on our standard.



P/N	Input Connector	Dimensions [mm]		Probes Number (1)
		(A) max.	(B) max.	
1319-01	N female	105	110	1
1319-02	N female	110	181	2
1319-03	N female	110	232	3
1356-01	7/16 female	105	102	1
1356-02	7/16 female	110	175	2
1356-03	7/16 female	110	225	3
1261-01	EIA 7/8"	105	152	1
1261-02	EIA 7/8"	110	223	2
1261-03	EIA 7/8"	110	274	3
1110-01	EIA 1 5/8"	110	130	1
1110-02	EIA 1 5/8"	110	191	2
1110-03	EIA 1 5/8"	110	243	3
1258-01	EIA 3 1/8"	125	130	1
1258-02	EIA 3 1/8"	125	210	2
1258-03	EIA 3 1/8"	125	210	3
1316-01	EIA 4 1/2"	140	145	1
1316-02	EIA 4 1/2"	140	200	2
1316-03	EIA 4 1/2"	140	200	3
1659-01	EIA 6 1/8"	170	230	1
1659-02	EIA 6 1/8"	170	310	2
1659-03	EIA 6 1/8"	170	390	3

(1) more probes may be supplied on request



All data contained in this technical sheet
are not binding and can be changed
without notice

Data updating 11/06/2012

Delta Meccanica s.r.l.

Via Fontanelle di Bardano, 20 - 05018 Orvieto (TR) - Italy

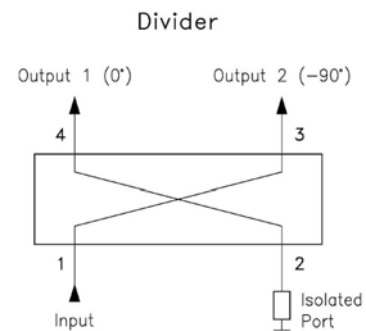
Phone +39 0763 316222 - Fax +39 0763 316267

e-mail info@deltameccanica.com - web www.deltameccanica.com

HYBRID COUPLERS

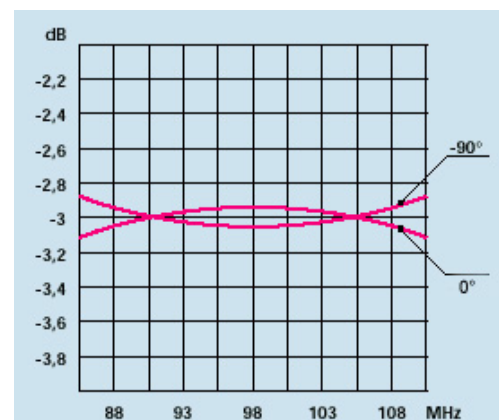
A 3 dB Hybrid Coupler is a device that allows to divide, or to add, the RF power. When it works like a divider (see fig.1), the input power is divided in half (-3dB), every half will have a phase difference of 0° and -90° related to the input power; on the other port no power there will be (insulated port).

In reality Hybrid Couplers are designed in wide-band, for which the division factor is not exactly -3dB, but will follow the outline of the curves reported on fig. 2 (this diagrams refers to an F.M. Hybrid Coupler), and the insulated port it will be closed, using a suitable dummy load.



Divider fig.1

When the Hybrid Coupler works like a combiner, it is possible to add the input powers (power 1 and power 2 - see fig.3) provided that they have the same frequency the same power and be dephased of 90°



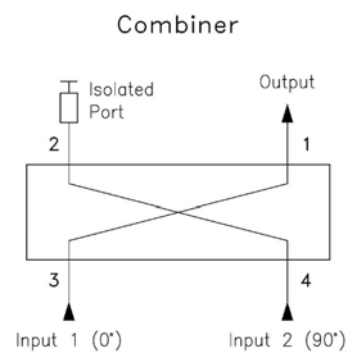
coupling factor fig.2

As we already said, in reality the wide-band Hybrid coupler will not add exactly the two powers, but a portion of power (-30 dB) will be present on the insulated port.

Furthermore working like a combiner, it is necessary to consider that, one of the two input powers could fail, in this situation, on the insulated port, it is possible to have half of the remaining power, for this reason it is necessary to close the insulated port with a dummy load of a power at least equal to the half of the one entering on one of the ports

(i.e.: input 1 = 1kW. input 2 = 1kW Dummy load = 500)

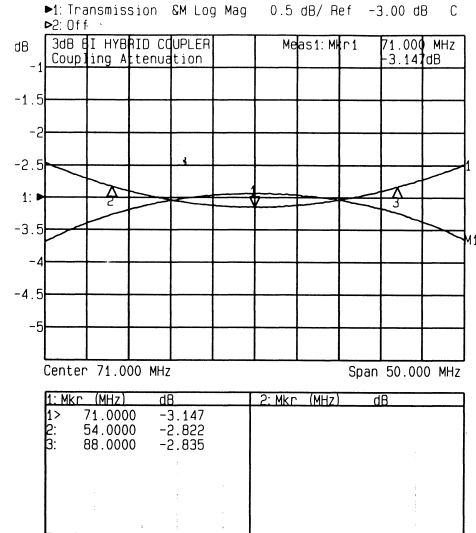
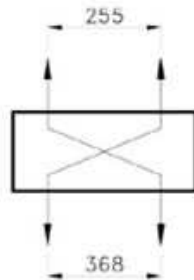
Our standard version is crossed version we may supply, on request, also the parallel version.



combiner fig.3

NOTE: The Part Number is composed by two section: the first (i.e. PN1354) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Band I 3dB BI Hybrid Coupler 10kW

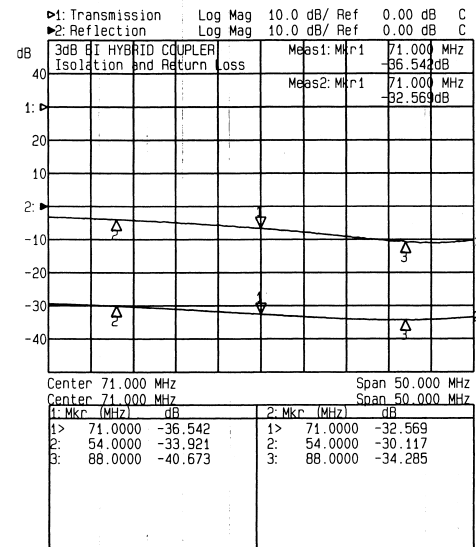


Mechanical Characteristics

Connections	EIA 1 5/8"
Connections options	N, DIN 7/16, EIA 7/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	462x173x312
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	10

Electrical Characteristics

Frequency Range [MHz]	54 ÷ 88
Coupling Factor [dB]	3 ± 0.3
Insulation [dB]	> 30
Maximum Total Power [W]	10000
Return loss [dB]	> 26
Impedance [Ohm]	50



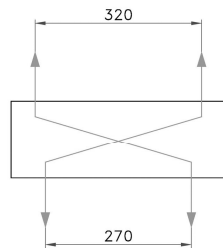
NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1447-Vx**

FM-Radio Band II 3dB Hybrid Coupler 4kW

Hybrid couplers

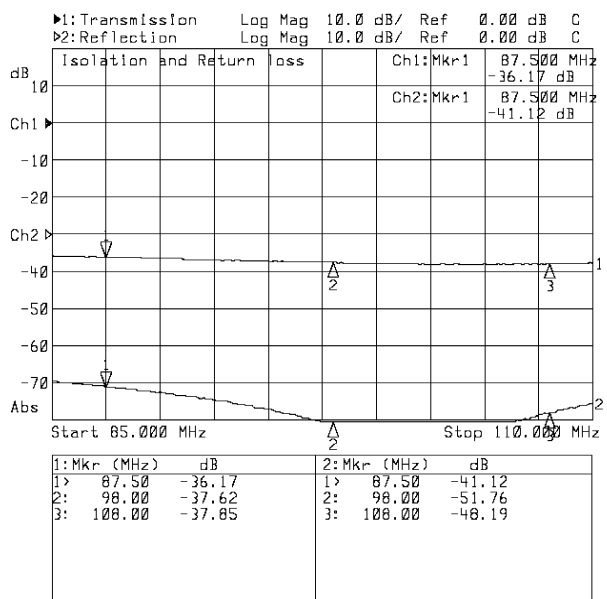
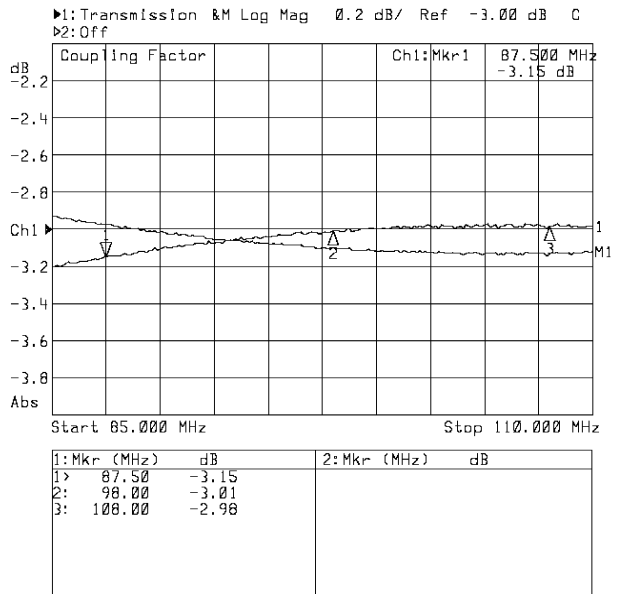


Mechanical Characteristics

Connections	N
Connections options	DIN 7/16, EIA 7/8" and 1 5/8"
Overall dimensions [WxDxH] [mm.]	356x45x150
Temperature range [C°]	-10÷50
Weight [kg.]	4

Electrical Characteristics

Frequency Range [MHz]	87.5÷108
Coupling Factor [dB]	3 ± 0.2
Insulation [dB]	> 30
Maximum Total Power [W]	4000
Return loss [dB]	> 26
Impedance [Ohm]	50



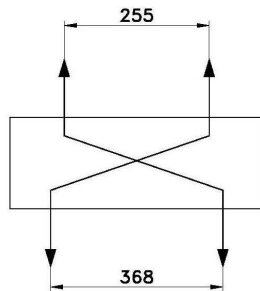
NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1375-Vx**

FM-Radio Band II 3dB Hybrid Coupler 6kW

Hybrid couplers

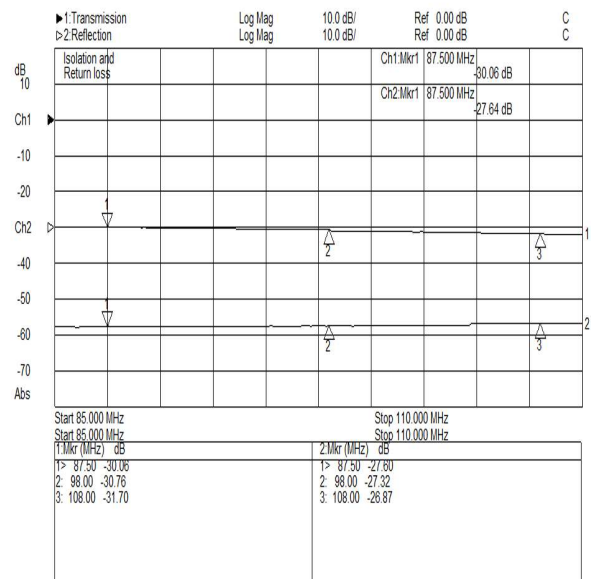
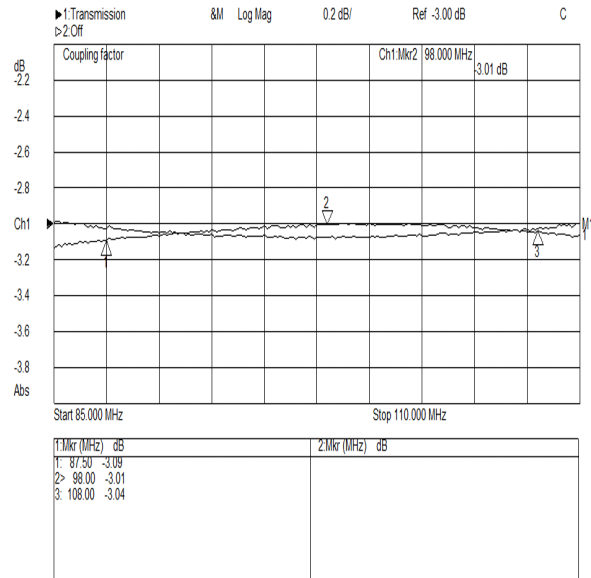


Mechanical Characteristics

Connections	EIA 7/8"
Connections options	N, DIN 7/16 and EIA 1 5/8"
Overall dimensions [WxDxH] [mm.]	462x77x312
Temperature range [C°]	-10÷50
Weight [kg.]	6

Electrical Characteristics

Frequency Range [MHz]	87.5÷108
Coupling Factor [dB]	3 ± 0.2
Insulation [dB]	> 30
Maximum Total Power [W]	6000
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1150-Vx**

FM-Radio Band II 3dB Hybrid Coupler 6kW

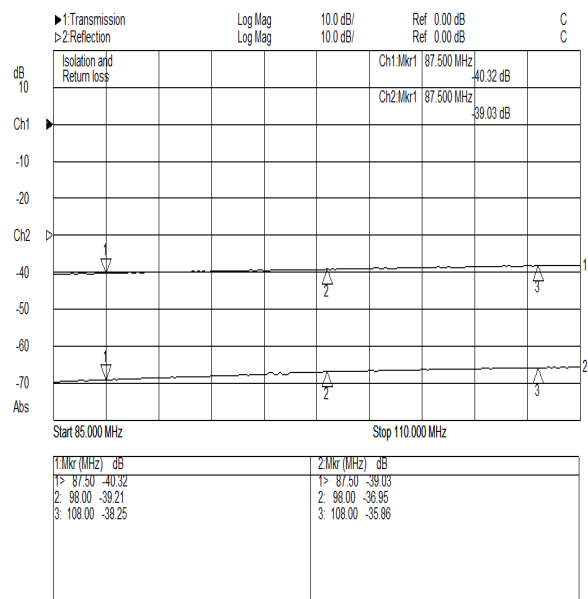
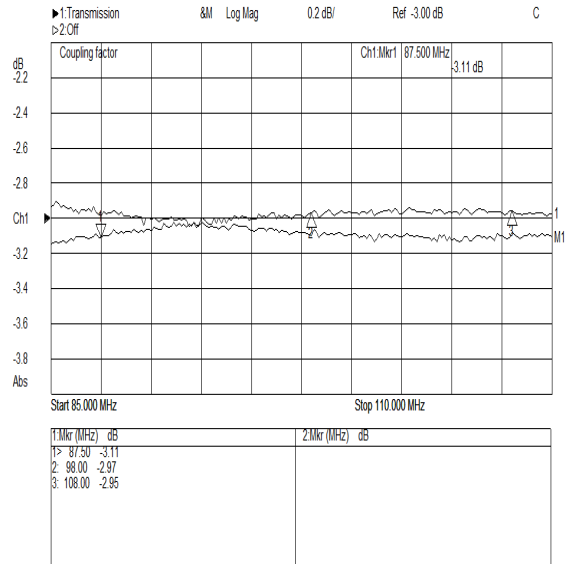


Mechanical Characteristics

Connections	EIA 7/8"
Connections options	N, DIN 7/16 and EIA 1 5/8"
Overall dimensions [WxDxH] [mm.]	865x50x100
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	4

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Coupling Factor [dB]	3 ± 0.2
Insulation [dB]	> 30
Maximum Total Power [W]	6000
Return loss [dB]	> 26
Impedance [Ohm]	50



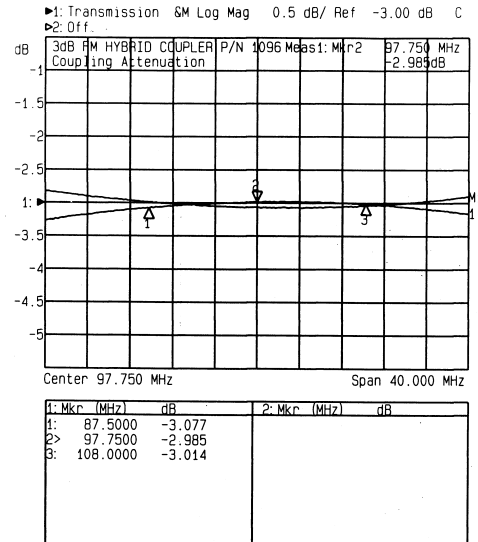
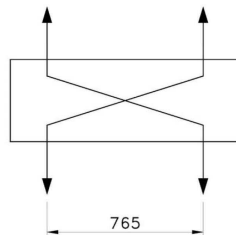
NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1096-Vx**

FM-Radio Band II 3dB Hybrid Coupler 15kW

Hybrid couplers

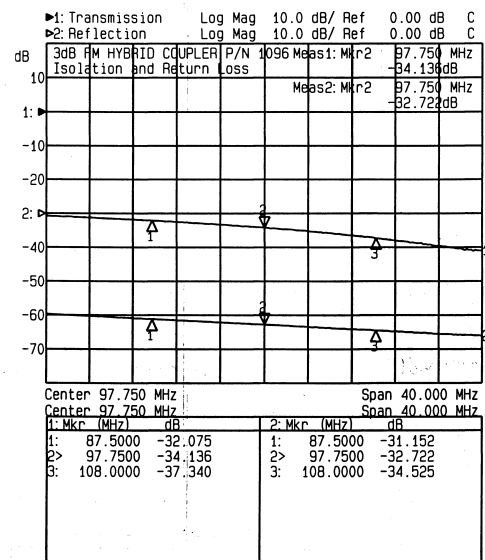


Mechanical Characteristics

Connections	EIA 1 5/8"
Connections options	N, DIN 7/16, EIA 7/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	877x100x180
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	8

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Coupling Factor [dB]	3 ± 0.2
Insulation [dB]	> 30
Maximum Total Power [W]	15000
Return loss [dB]	> 26
Impedance [Ohm]	50

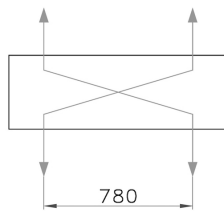


NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1068-Vx**

FM-Radio Band II 3dB Hybrid Coupler 50kW

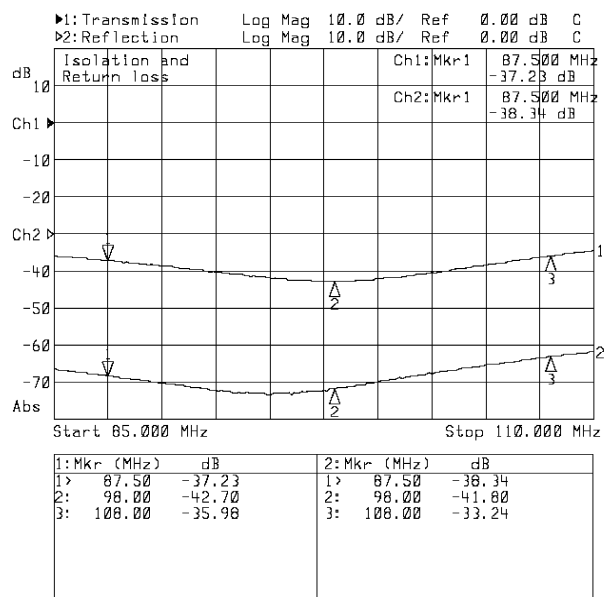
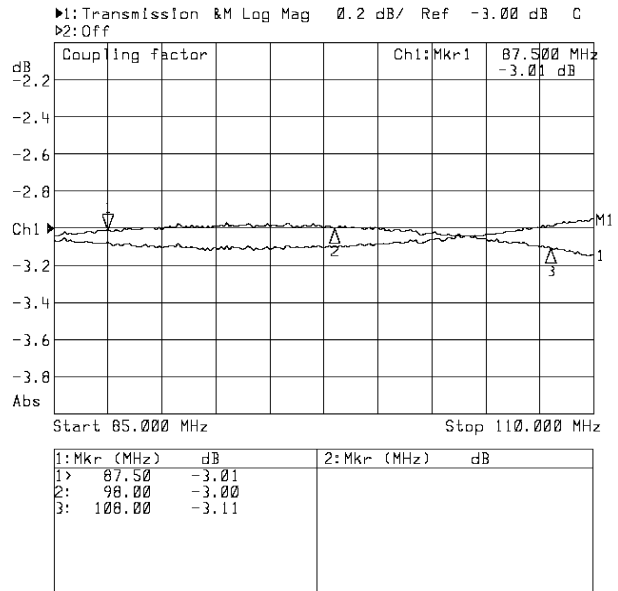


Mechanical Characteristics

Connections	EIA 3 1/8"
Connections options	N, DIN 7/16, EIA 7/8" and 1 5/8"
Overall dimensions [WxDxH] [mm.]	950x152x232
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	20

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Coupling Factor [dB]	3 ± 0.2
Insulation [dB]	> 30
Maximum Total Power [W]	50000
Return loss [dB]	> 26
Impedance [Ohm]	50

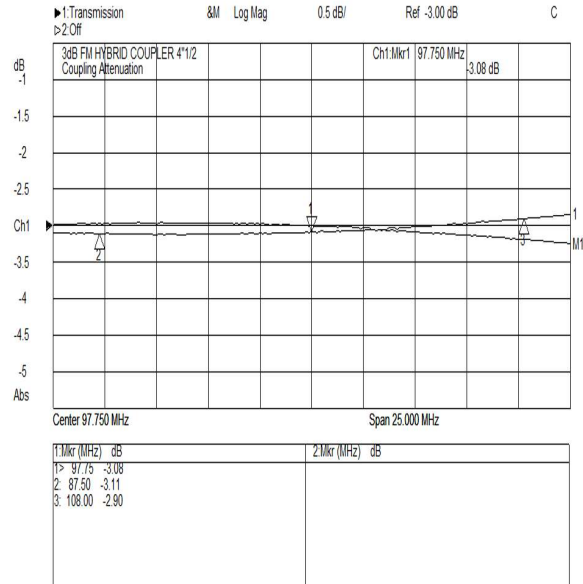
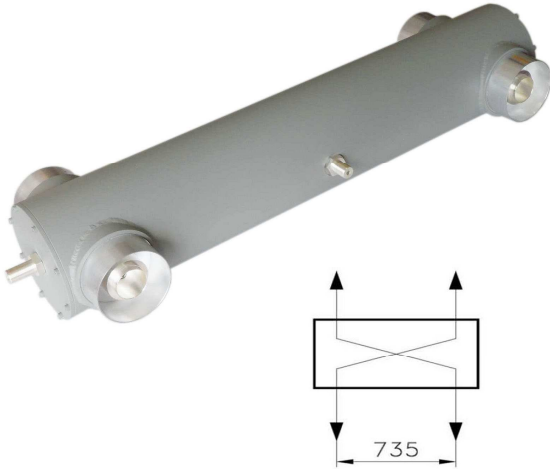


NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1488-Vx**

FM-Radio Band II 3dB Hybrid Coupler 80kW

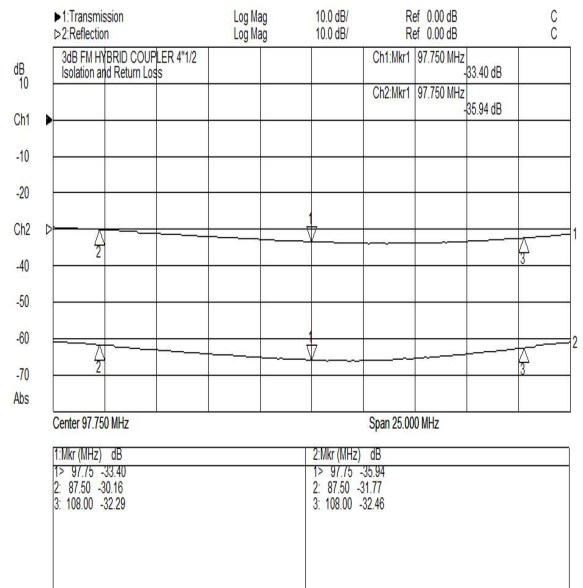


Mechanical Characteristics

Connections	EIA 4 1/2"
Connections options	EIA 7/8", 1 5/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	1015x180x300
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	28

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Coupling Factor [dB]	3 ± 0.2
Insulation [dB]	> 30
Maximum Total Power [W]	80000
Return loss [dB]	> 26
Impedance [Ohm]	50

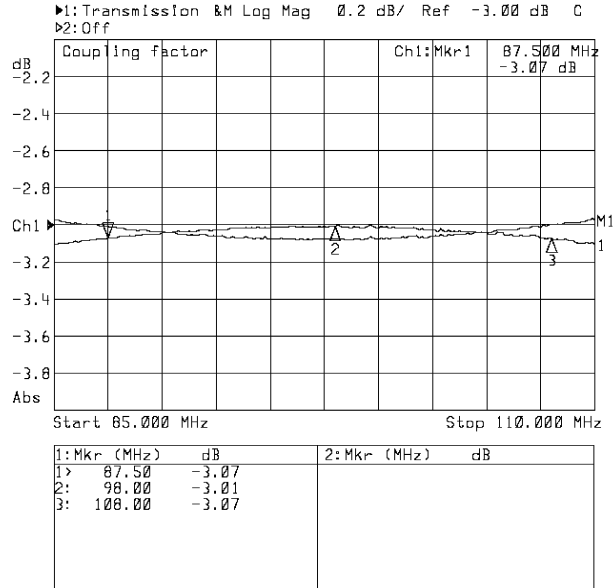
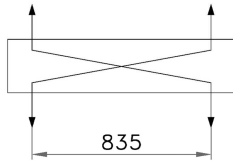
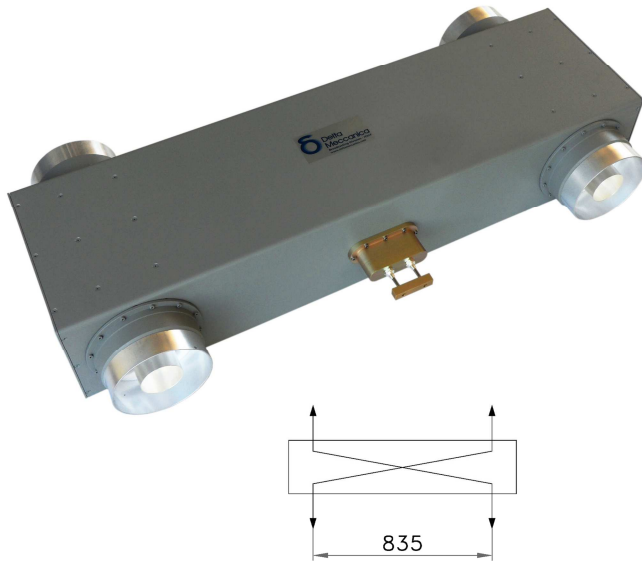


NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1658-Vx**

FM-Radio Band II 3dB Hybrid Coupler 150kW

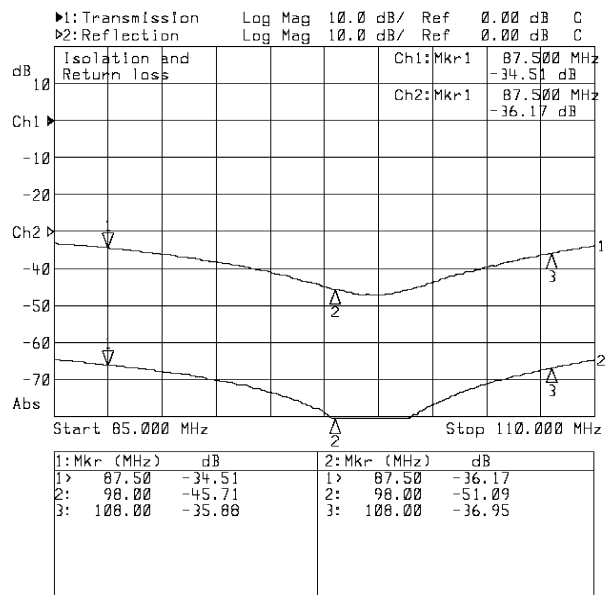


Mechanical Characteristics

Connections	EIA 6 1/8" Flanged or Unflanged
Connections options	On request
Overall dimensions [WxDxH] [mm.]	1065x207x600
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	50

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Coupling Factor [dB]	3 ± 0.1
Insulation [dB]	> 30
Maximum Total Power [W]	150000
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

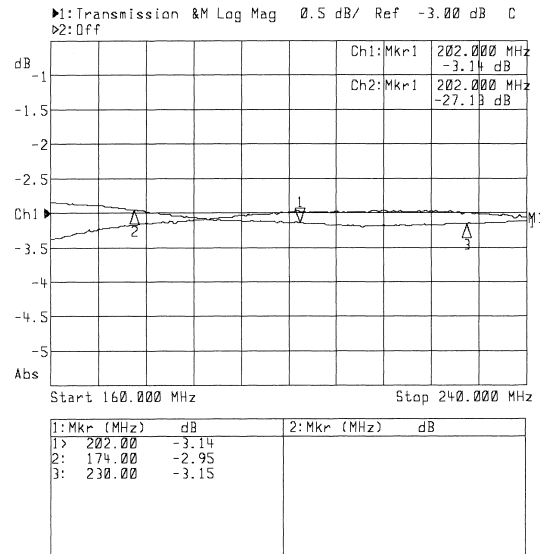
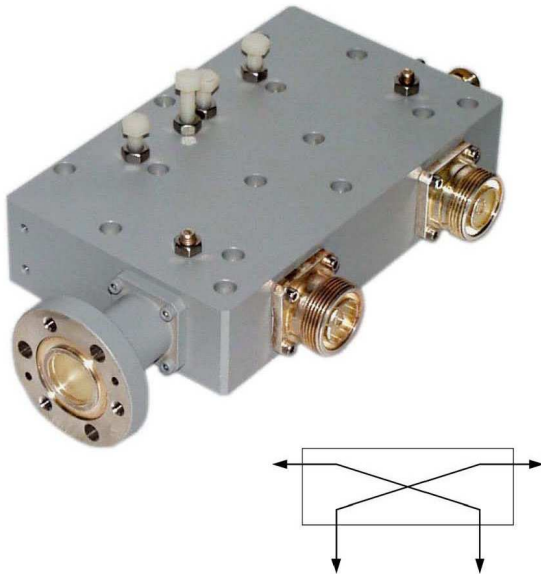
Technical data sheet

Part Number **1636-Vx**

Band III

3dB Hybrid Coupler 2kW

Hybrid couplers

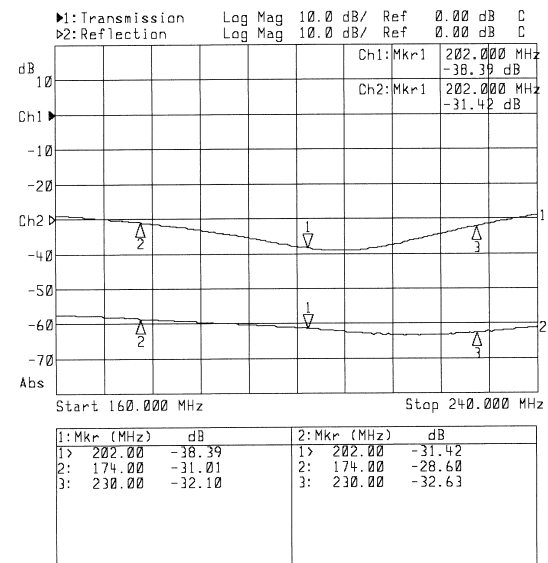


Mechanical Characteristics

Connections	DIN 7/16
Connections options	N, EIA 7/8", 1 5/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	270x154x70
Temperature range [C°]	-10÷50
Weight [kg.]	2.6

Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Coupling Factor [dB]	3 ± 0.4
Insulation [dB]	> 30
Maximum Total Power [W]	2000
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

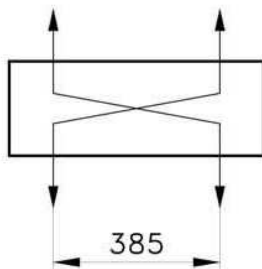
Technical data sheet

Part Number 1330-Vx

Band III

3dB Hybrid Coupler 3kW

Hybrid couplers

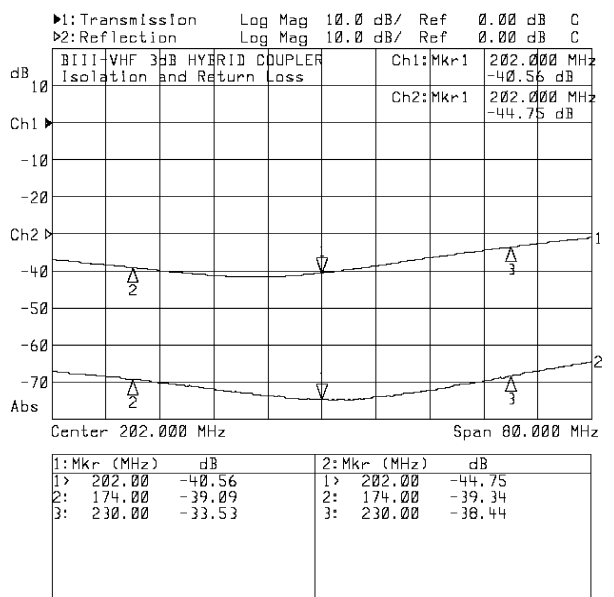
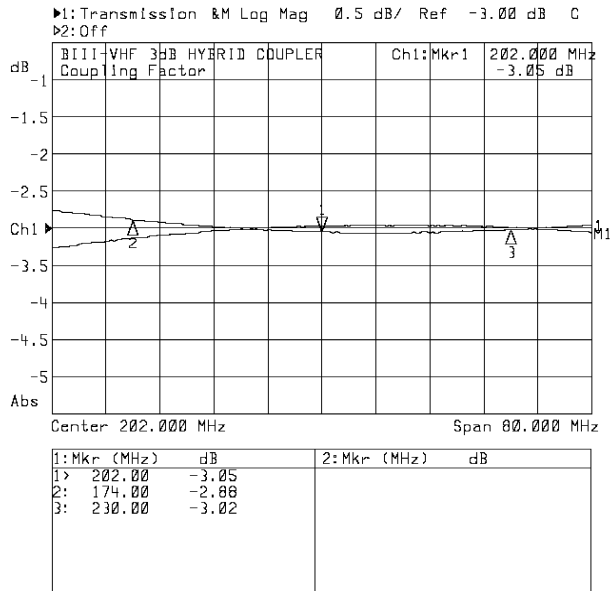


Mechanical Characteristics

Connections	EIA 7/8"
Connections options	N, DIN 7/16, EIA 1 5/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	484x50x100
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	4

Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Coupling Factor [dB]	3 ± 0.4
Insulation [dB]	> 30
Maximum Total Power [W]	3000
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

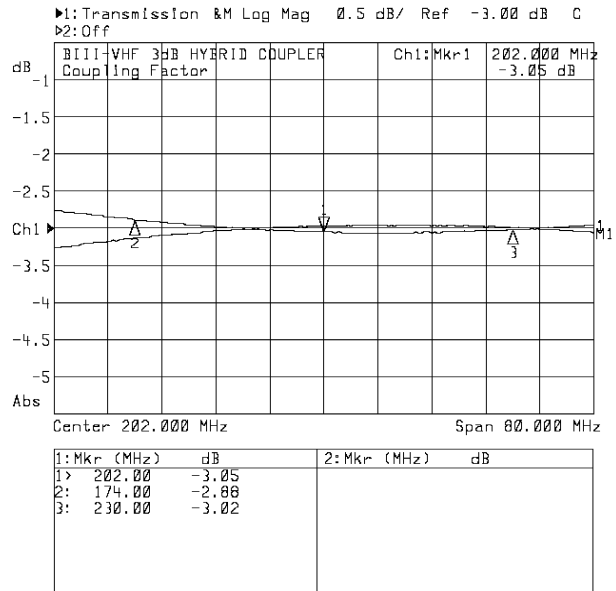
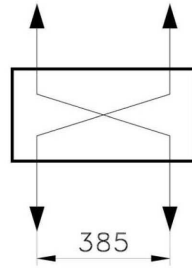
Technical data sheet

Part Number 1338-Vx

Band III

3dB Hybrid Coupler 10kW

Hybrid couplers

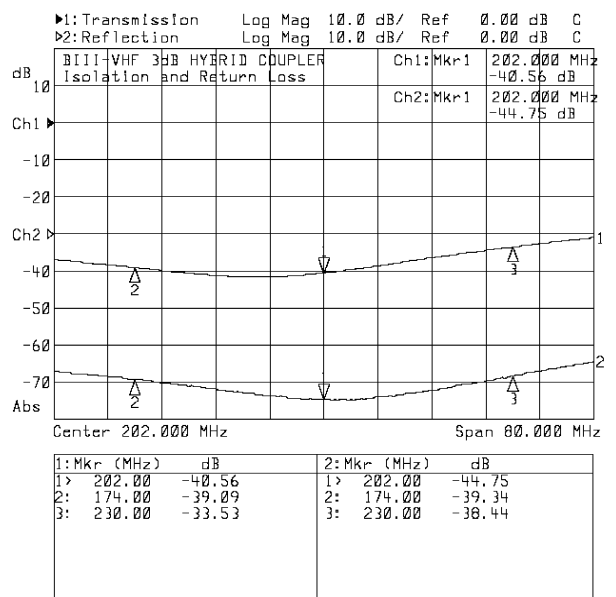


Mechanical Characteristics

Connections	EIA 1 5/8"
Connections options	N, 7/16, EIA 7/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	477x170x140
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	6.5

Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Coupling Factor [dB]	3 ± 0.4
Insulation [dB]	> 35
Maximum Total Power [W]	10000
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. PN1354) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

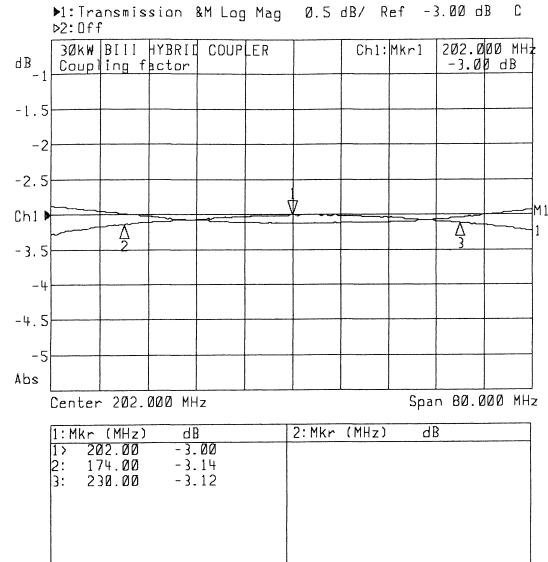
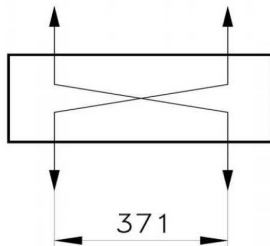
Technical data sheet

Part Number 1351-Vx

Band III

3dB Hybrid Coupler 30kW

Hybrid couplers

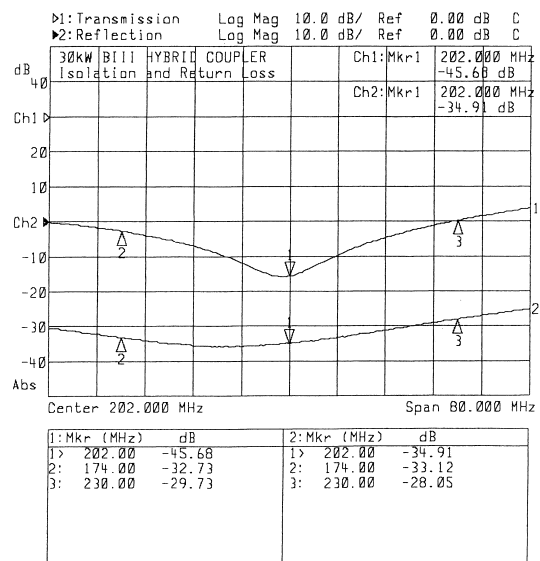


Mechanical Characteristics

Connections	EIA 3 1/8"
Connections options	N, DIN 7/16, EIA 7/8" and 1 5/8"
Overall dimensions [WxDxH] [mm.]	539x152x232
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	12

Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Coupling Factor [dB]	3 ± 0.4
Insulation [dB]	> 30
Maximum Total Power [W]	30000
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

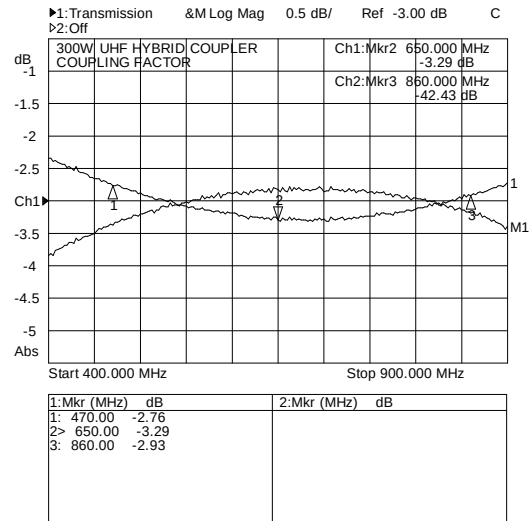
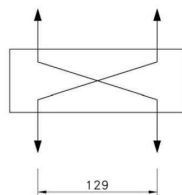
Technical data sheet

Part Number **1610-Vx**

Band IV-V

3dB Hybrid Coupler 300W

Hybrid couplers

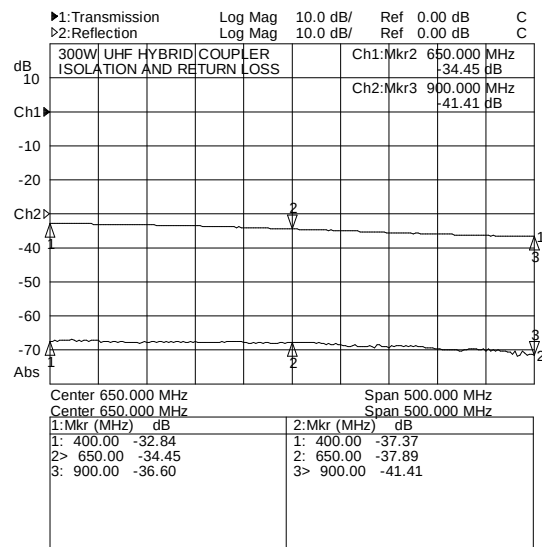


Mechanical Characteristics

Connections	N
Connections options	DIN 7/16
Overall dimensions [WxDxH] [mm.]	170x65x41
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	0.4

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Coupling Factor [dB]	3 ± 0.3
Insulation [dB]	> 30
Maximum Total Power [W]	420 ATV (300 DTV)
Return loss [dB]	> 30
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

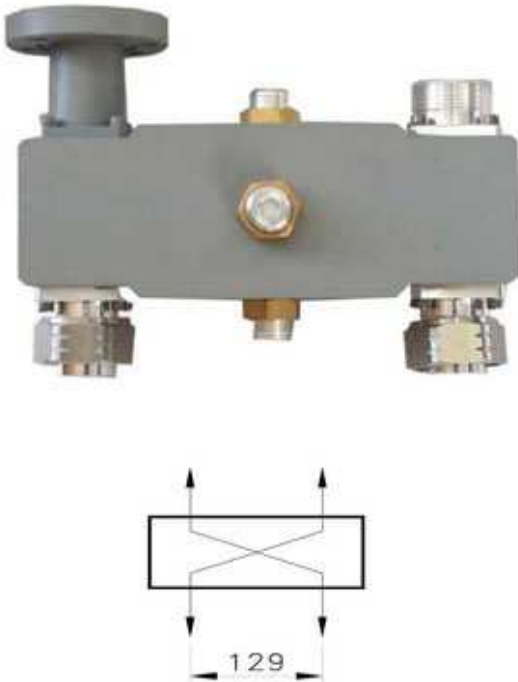
Technical data sheet

Part Number **1354-Vx**

Band IV-V

3dB Hybrid Coupler 3kW

Hybrid couplers

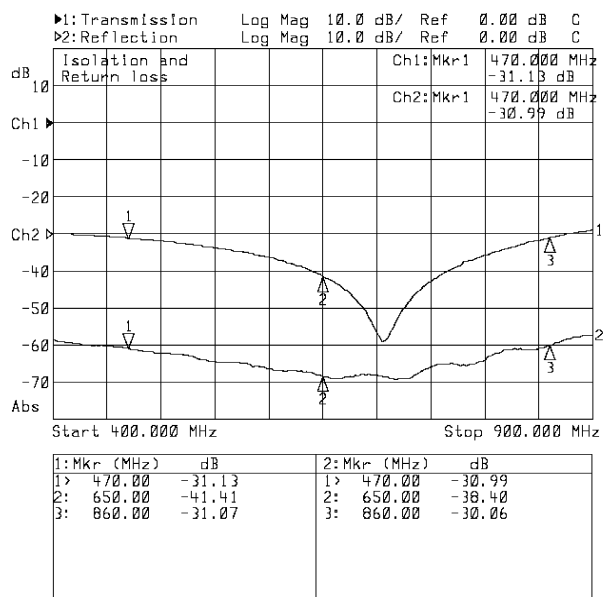
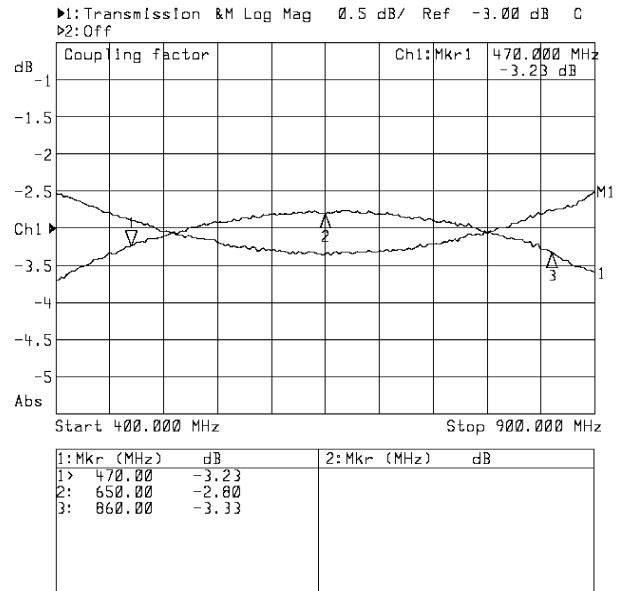


Mechanical Characteristics

Connections	EIA 7/8" or DIN 7/16, N
Connections options	EIA 1 5/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	169x54x142
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	2

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Coupling Factor [dB]	3 ± 0.4
Insulation [dB]	> 30
Maximum Total Power [W]	3000 ATV (2000 DTV)
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. **PN1354**) identifies the family of the same type. The second section (**-Vx**) identifies the exact combination of different connectors configuration of the 4 ports.

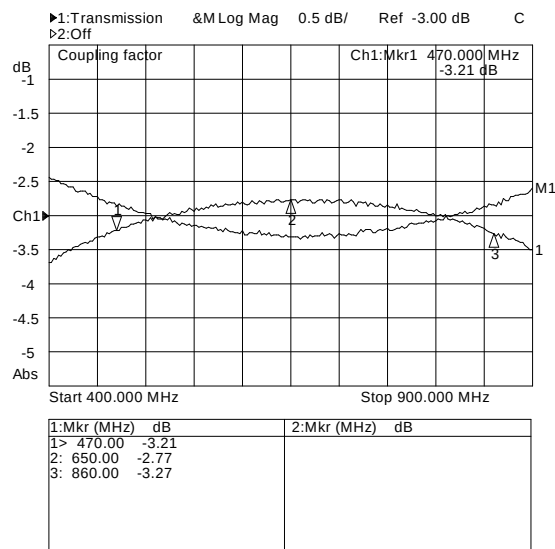
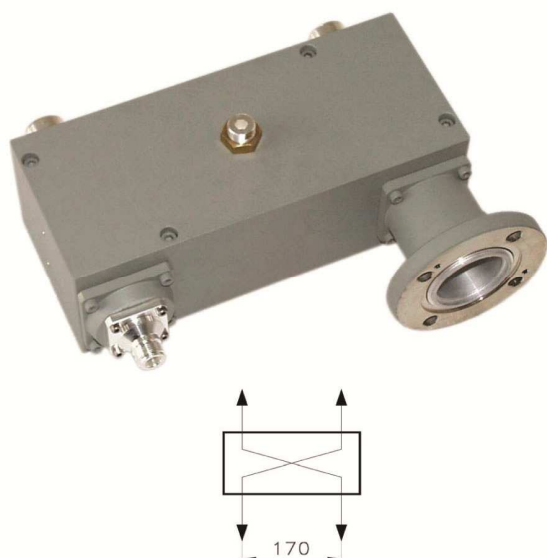
Technical data sheet

Part Number **1656-Vx**

Hybrid couplers

Band IV-V

3dB Hybrid Coupler 7.5kW

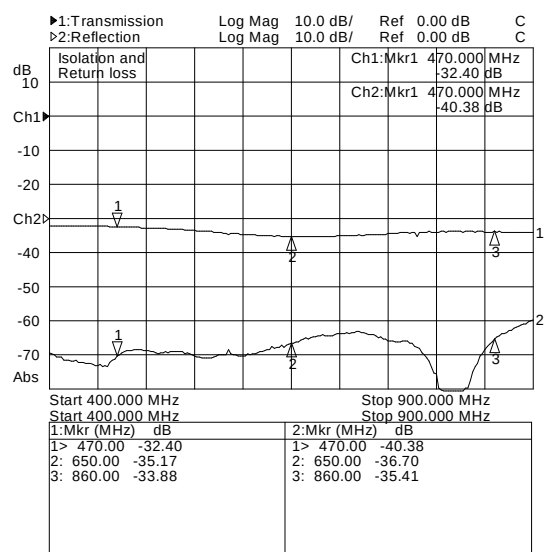


Mechanical Characteristics

Connections	EIA 1 5/8"
Connections options	N, DIN 7/16, EIA 7/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	222x180x100
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	4

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Coupling Factor [dB]	3 ± 0.3
Insulation [dB]	> 30
Maximum Total Power [W]	7500 ATV (5000 DTV)
Return loss [dB]	> 30
Impedance [Ohm]	50



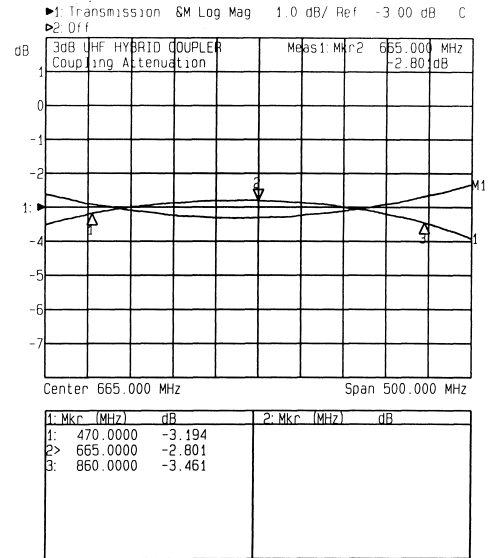
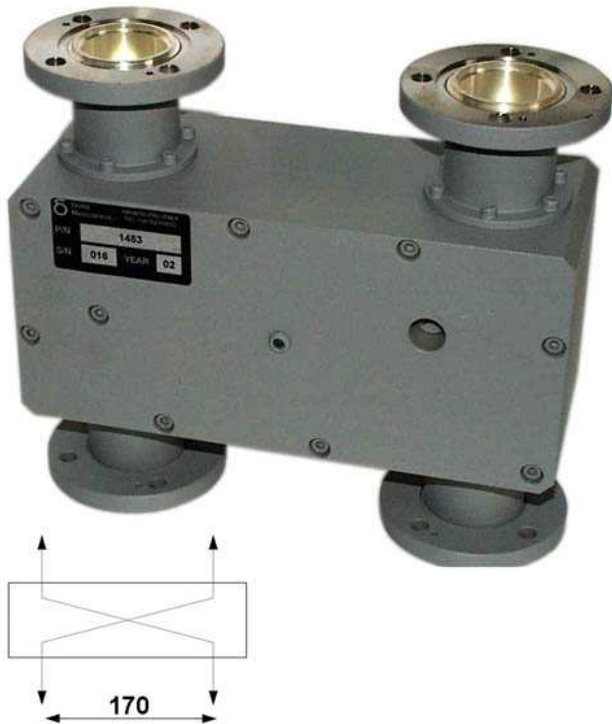
NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Technical data sheet

Part Number **1453-Vx**

Band IV-V

3dB UHF Hybrid Coupler 10kW

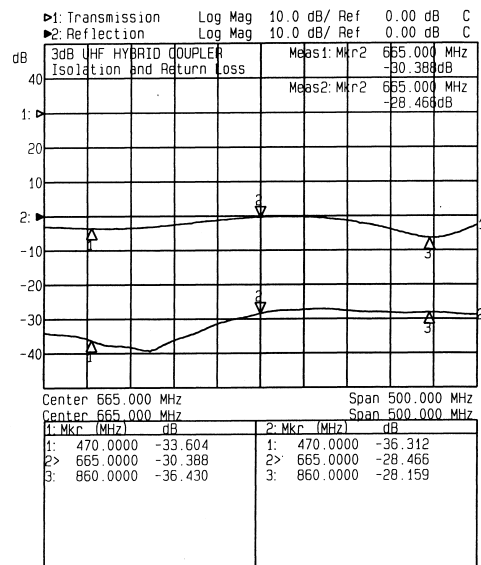


Mechanical Characteristics

Connections	EIA 1 5/8"
Connections options	N, DIN 7/16, EIA 7/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	300x130x266
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	9

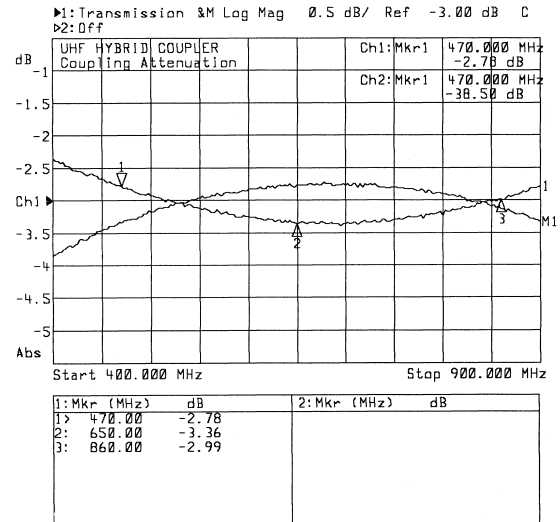
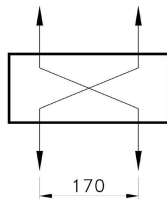
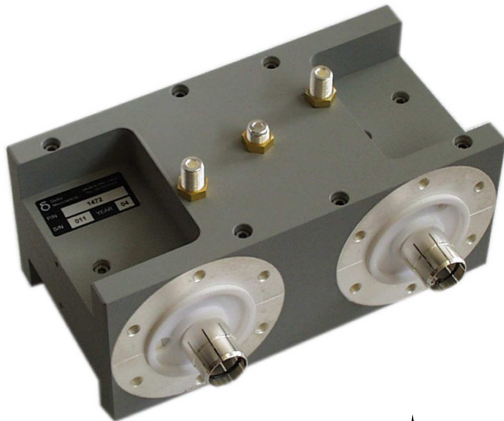
Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Coupling Factor [dB]	3 ± 0.4
Insulation [dB]	> 30
Maximum Total Power [W]	10000 ATV (8000 DTV)
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Band IV-V 3dB UHF Hybrid Coupler 30kW

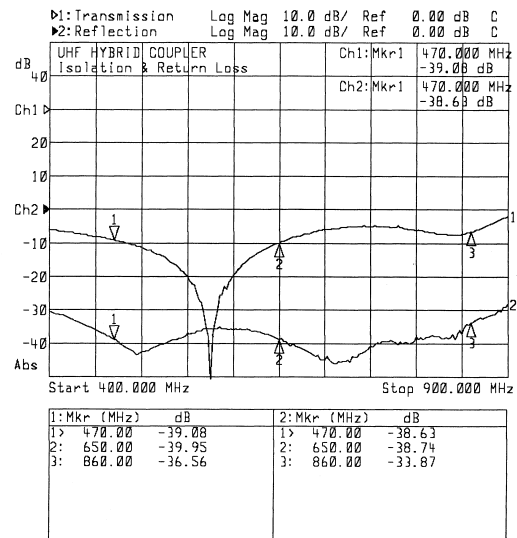


Mechanical Characteristics

Connections	EIA 3 18"
Connections options	N, DIN 7/16, EIA 7/8" and 1 5/8"
Overall dimensions [WxDxH] [mm.]	304x130x234
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	9

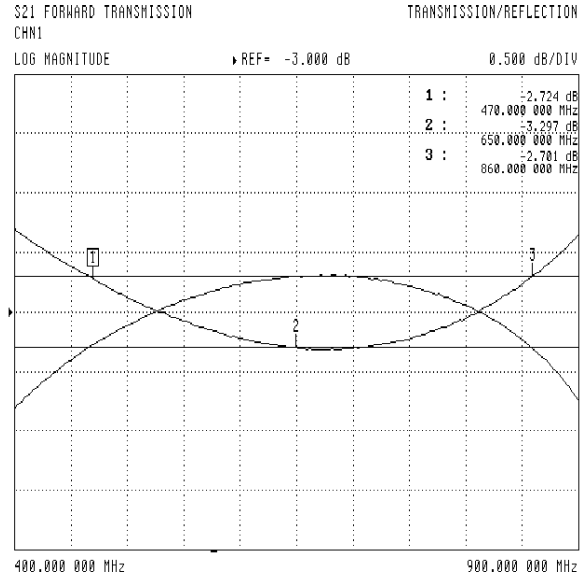
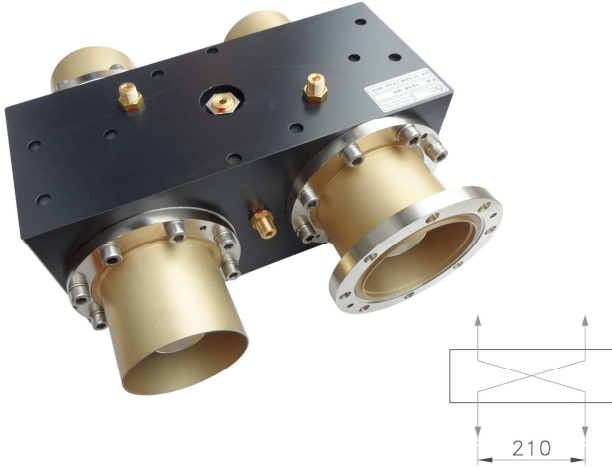
Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Coupling Factor [dB]	3 ± 0.4
Insulation [dB]	> 30
Maximum Total Power [W]	30000 ATV (21000 DTV)
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

Band IV-V 3dB UHF Hybrid Coupler 57kW

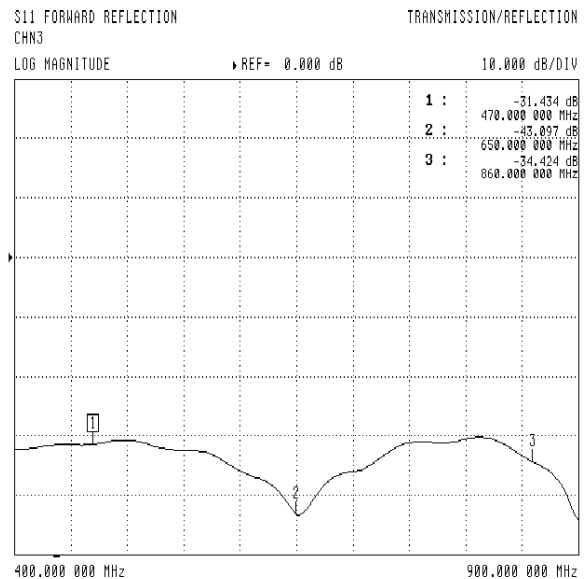


Mechanical Characteristics

Connections	EIA 4 12"
Connections options	N, 7/16, EIA 7/8", 1 5/8" and 3 1/8"
Overall dimensions [WxDxH] [mm.]	375x212x364
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	28

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Coupling Factor [dB]	3 ± 0.3
Insulation [dB]	> 30
Maximum Total Power [W]	57000 ATV (40000 DTV)
Return loss [dB]	> 26
Impedance [Ohm]	50



NOTE: The Part Number is composed by two section: the first (i.e. *PN1354*) identifies the family of the same type. The second section (-Vx) identifies the exact combination of different connectors configuration of the 4 ports.

DUMMY LOADS



Delta Meccanica developed and manufactures dummy loads especially designed to be used in the "constant impedance" combiners. The reliability and quality of such products, convinced us to propose these to the market.

Technical data sheet

Part Number **1365-1**

Dummy loads

DC ÷ 862MHz 10W Dummy Load

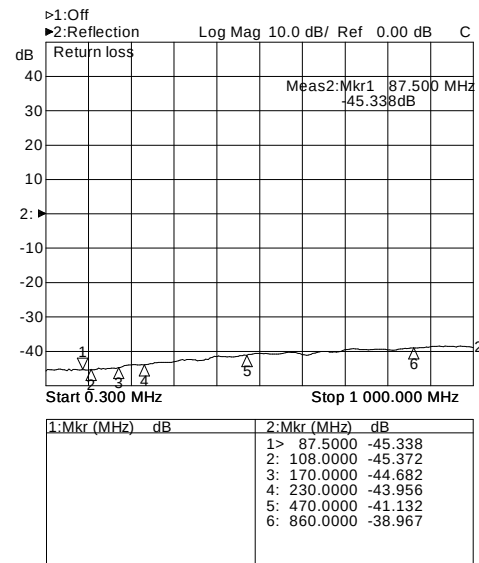


Mechanical Characteristics

Connections	N male
Overall dimensions [WxDxH] [mm.]	51x51x66
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	0.19
Cooling system	Convection

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	10 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-3**

Dummy loads

DC ÷ 862MHz 30W Dummy Load

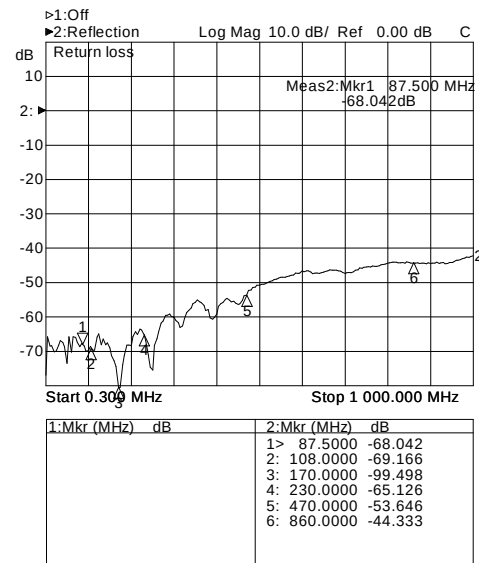


Mechanical Characteristics

Connections	N male
Overall dimensions [WxDxH] [mm.]	63x63x86
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	0.27
Cooling system	Convection

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	30 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-5**

Dummy loads

DC ÷ 862MHz **50W Dummy Load**

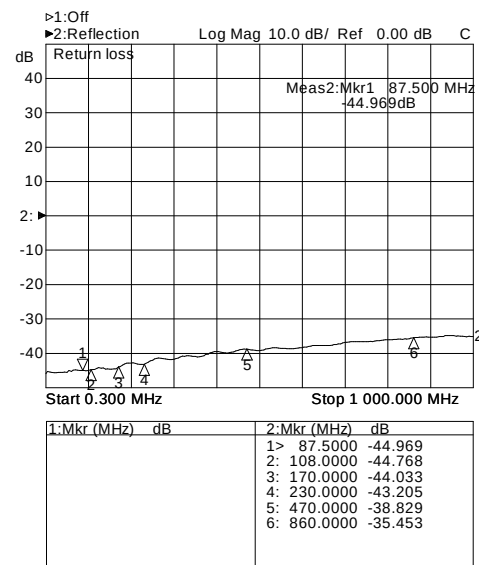


Mechanical Characteristics

Connections	N male
Overall dimensions [WxDxH] [mm.]	63x63x116
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	0.35
Cooling system	Convection

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	50 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-10**

Dummy loads

DC ÷ 862MHz 100W DUMMY LOAD

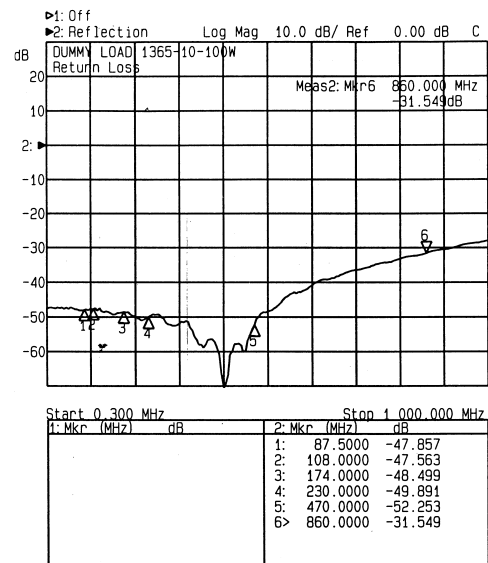


Mechanical Characteristics

Connections	N
Overall dimensions [WxDxH] [mm.]	113x59x219
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	1
Cooling system	Convection

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	100 (rms)
Blower AC power [V]	N.A.

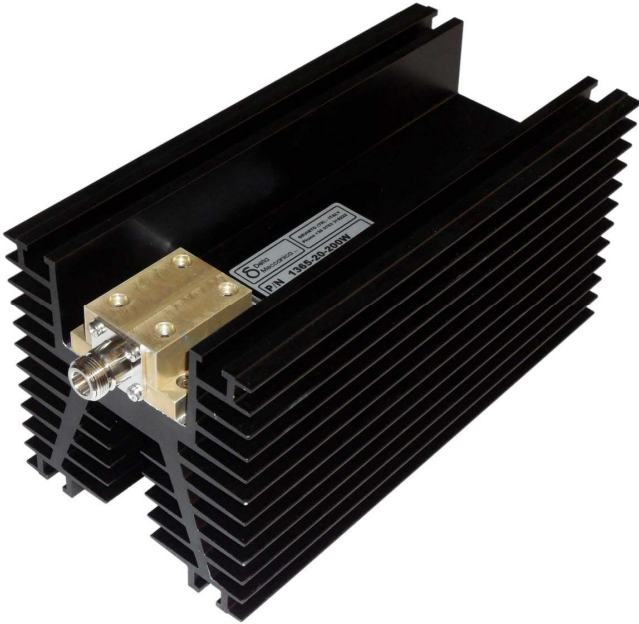


Technical data sheet

Part Number **1365-20**

Dummy loads

DC ÷ 862MHz 200W DUMMY LOAD

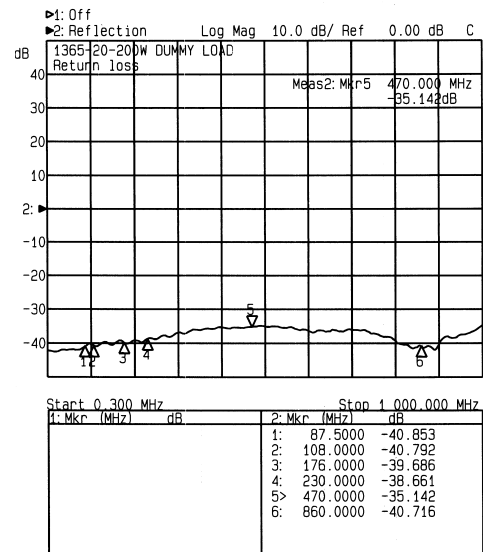


Mechanical Characteristics

Connections	N or DIN 7/16
Overall dimensions [WxDxH] [mm.]	120x265x123
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	2.5
Cooling system	Convection

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	200 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-60**

Dummy loads

DC ÷ 862MHz 600W DUMMY LOAD

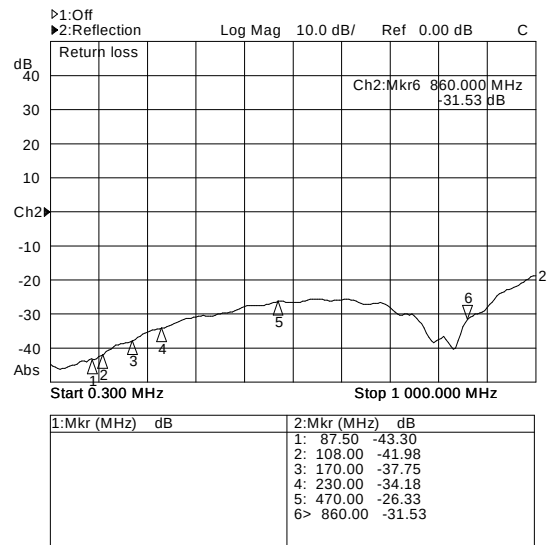


Mechanical Characteristics

Connections	N or DIN 7/16
Overall dimensions [WxDxH] [mm.]	165x380x234
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	9
Cooling system	Convection

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	600 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-100**

Dummy loads

DC ÷ 862MHz 1kW Dummy Load - Oil cooling system

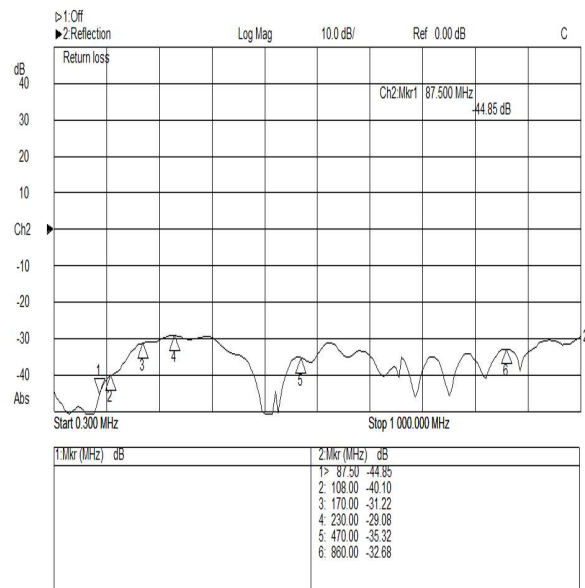


Mechanical Characteristics

Connections	DIN 7/16 , N or EIA 7/8"
Overall dimensions [WxDxH] [mm.]	220x432x330
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	19
Cooling system	Oil Cooling

Electrical Characteristics

Frequency Range [MHz]	DC - 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	1000 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-100-V**

Dummy loads

DC ÷ 862MHz 1,5 kW Dummy Load - Oil Dielectric with Forced Air

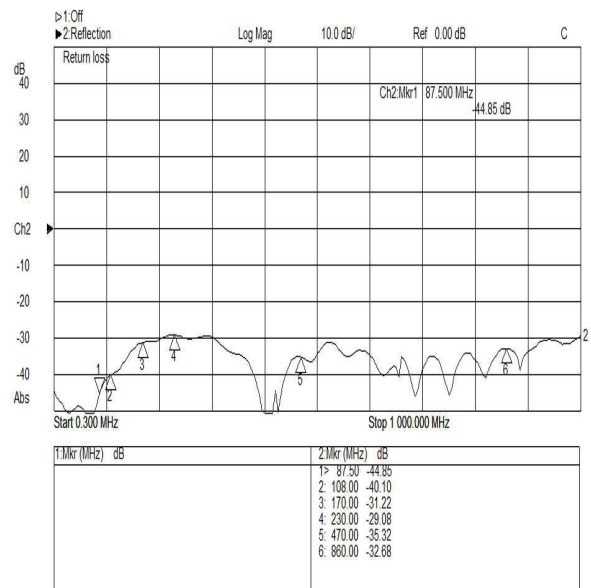


Mechanical Characteristics

Connections	DIN 7/16 , N or EIA 7/8"
Overall dimensions [WxDxH] [mm.]	235x432x480
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	25
Cooling system	Convection

Electrical Characteristics

Frequency Range [MHz]	DC - 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	1500 (RMS)
Temperature Interlock [OPTION]	DRY Contact N.A. or N.C.



Technical data sheet

Part Number **1365-250**

Dummy loads

DC ÷ 862MHz 2.5kW DUMMY LOAD - Oil cooling system

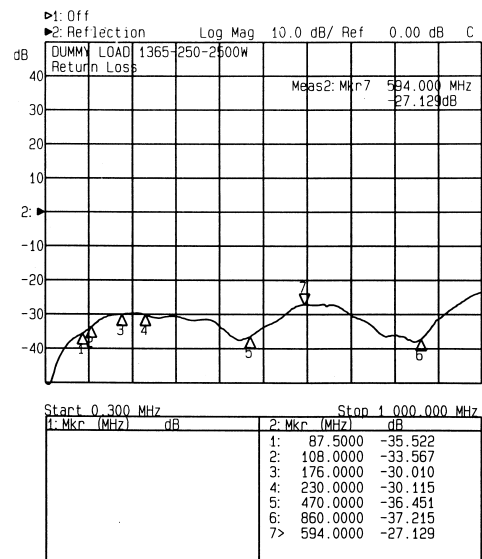


Mechanical Characteristics

Connections	EIA 7/8" , 1 5/8" , 3 1/8"
Overall dimensions [WxDxH] [mm.]	230x600x500
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	36
Cooling system	Oil Cooling

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	2500 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-250-V**

Dummy loads

DC ÷ 862MHz 5kW Dummy Load - Oil cooling with air forced



Blower AC Power: 220V, 50 or 60Hz

Optional 110V, 50 or 60Hz

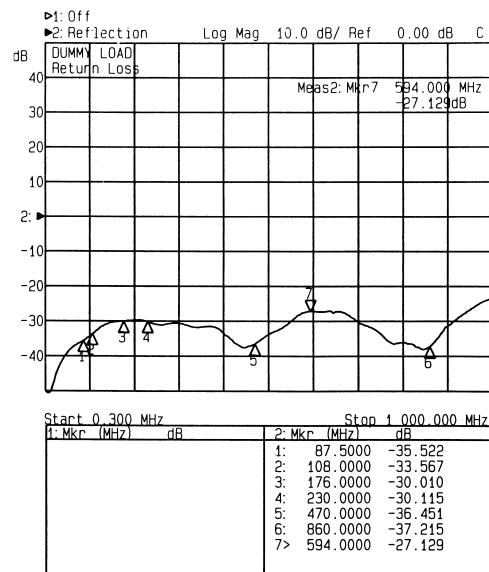
(The max power is reached with forced-air cooling on)

Mechanical Characteristics

Connections	EIA 7/8" , 1 5/8" , 3 1/8"
Overall dimensions [WxDxH] [mm.]	230x600x650
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	43
Cooling system	Oil Cooling with air forced

Electrical Characteristics

Frequency Range [MHz]	DC÷862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	5000 (rms)
Blower AC power [V]	110 or 220



DC ÷ 862MHz 5kW DUMMY LOAD - Oil cooling system

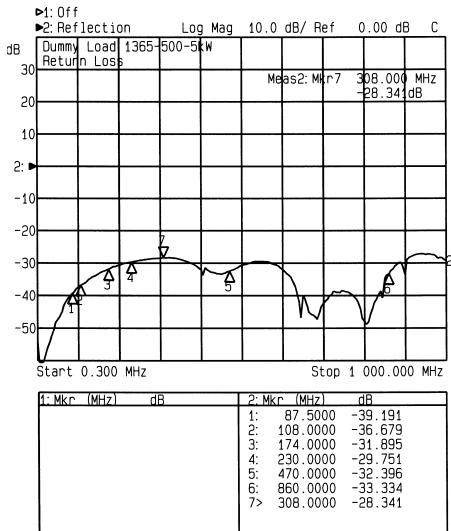


Mechanical Characteristics

Connections	EIA 1 5/8", EIA 7/8", EIA 3 1/8"
Overall dimensions [WxDxH] [mm.]	241x820x720
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	75
Cooling system	Oil Cooling

Electrical Characteristics

Frequency Range [MHz]	DC ÷ 862
Return loss [dB]	> 26
Input Impedance [Ohm]	50
Maximum Input Power [W]	5000 (rms)
Blower AC power [V]	N.A.



Technical data sheet

Part Number **1365-1000**

Dummy loads

DC ÷ 862MHz 10kW Dummy Load - Oil cooling with air forced



Blower AC Power: 220V, 50 or 60Hz

Optional 110V, 50 or 60Hz

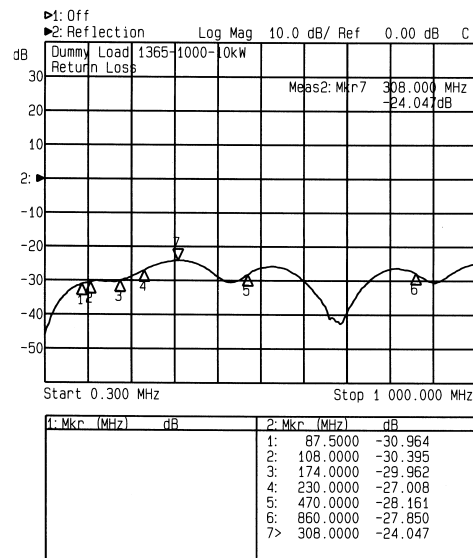
(The max power is reached with forced-air cooling on)

Mechanical Characteristics

Connections	EIA 3 1/8", 1 5/8"
Overall dimensions [WxDxH] [mm.]	240x842x980
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	87
Cooling system	Oil Cooling with air forced

Electrical Characteristics

Frequency Range [MHz]	DC÷862
Return loss [dB]	> 23
Input Impedance [Ohm]	50
Maximum Input Power [W]	10000 (rms)
Blower AC power [V]	110 or 220



MEASURE INSTRUMENTS

Part Number **1694**

Power Meter

Dual LCD watt meter

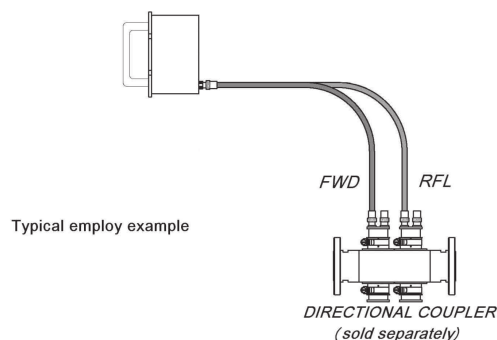


Mechanical Characteristics

Overall dimensions [WxDxH] [mm]	482x65x89
	2 rack unit 19"
Weight [Kg]	0.5

Electrical Characteristics

Frequency range	1MHz ÷ 1GHz
Max Power input	+20dBm
Accuracy	0.2dB
Number of Measure*	2 (FWD and REF)
Power Supply	9Vdc, 0.3A max
Power Supply Adaptor (included)	
RF input connectors	BNC
RF Measure	RMS
Working point	Selectable according to the directional coupler



All data contained in this technical sheet are not binding and can be changed without notice.

Data update 11/02/2018

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Technical data sheet

Part Number 1749

Portable digital Wattmeter with internal RF detector

**TECHNICAL SPECIFICATONS:**

RF INPUT: Up to 4 x SMA Female Connectors

RF INPUT Impedance: 50Ω

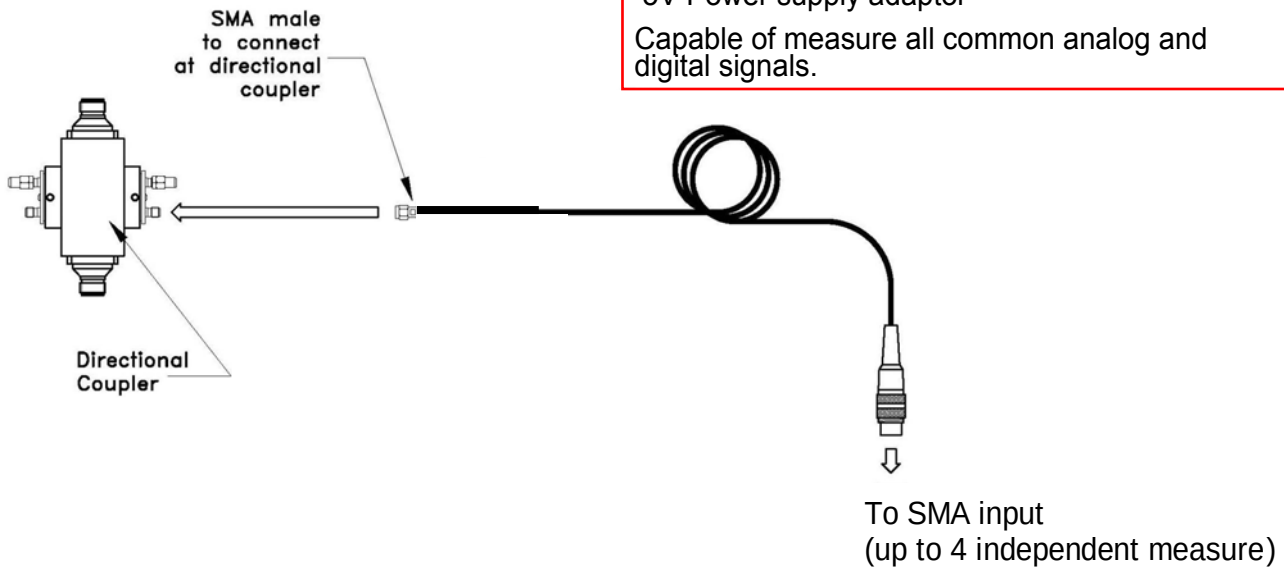
RF measure accuracy: 0.1 dBm Extended

Frequency range: 50MHz – 6GHz

Power supply: Internal lithium rechargeable battery

5V Power supply adaptor

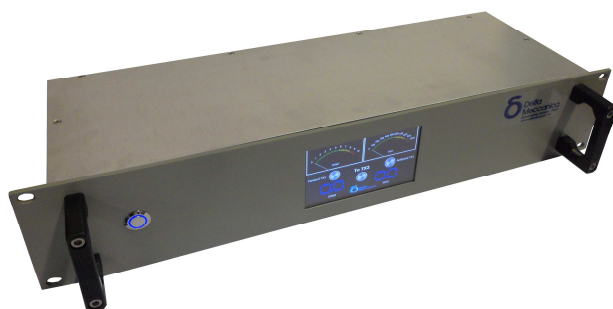
Capable of measure all common analog and digital signals.



Part Number **1694-2-D**

Power Meter

4.3" LCD Touch screen power meter



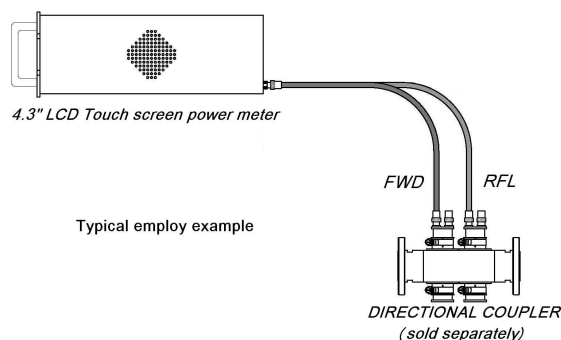
Mechanical Characteristics

Overall dimensions [WxDxH] [mm]	482x205x89
	2 rack unit 19"
Weight [Kg]	0.5

Electrical Characteristics

Frequency range	50MHz ÷ 6GHz
Measure accuracy	0.1dB @ -7dBm to +13dBm 0.3dB @ -9dBm to + 20dBm
Kind of signals detected:	CW, Analog Peak (10-90% stability) ATV, all complex modulations
Number of Measure*	2 (FWD and REF)
Power Supply	110-230 ± 15% Vac, 0.3A

*1694-4-D	4 measure version (FWD1; REF1; FWD2; REF2)
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All data contained in this technical sheet are not binding and can be changed without notice.

Data update 11/02/2016

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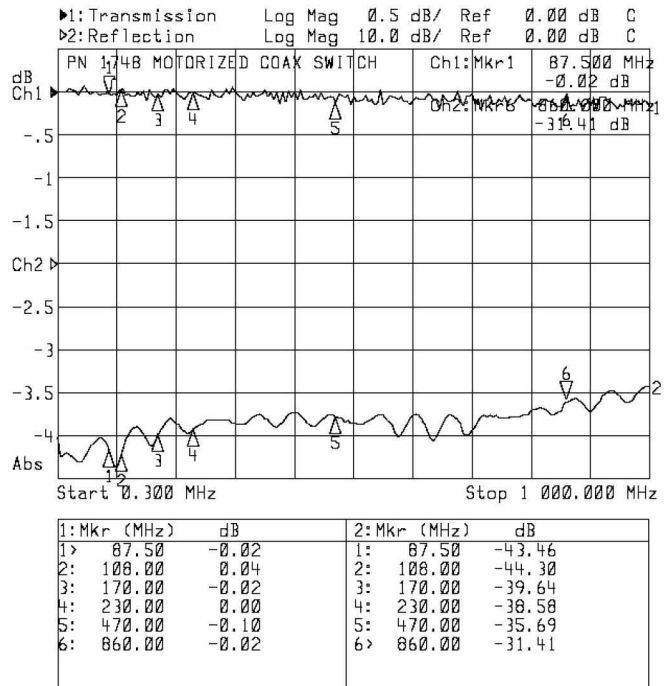
MOTORIZED COAXIAL SWITCHES

Our Motorized Coaxial Switch are designed for Broadcast applications, they may be employed as dual ports, DPDT, to connect two signals (i.e. main transmitter to antenna, stand by transmitter to dummy load) or just one, SPDT. More Switches may be connected among them to satisfy complex switching unit, or in addition to manual Patch-Panel.

Each device has two microswitch systems (signals and interlock) to indicate the switch position. Manual operation, by means of a rotating knob, may be performed in case of power supply failure, or other breakdowns. The contacts rotation is driven by an high torque electric motor, connected to a reduction gear, switch over time is about 3".

Delta Meccanica may supply also the control logic unit.

Our switches guarantee a great reliability and the average isolation between inputs, is better than 60 dB.



Mechanical Characteristics

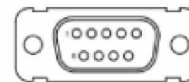
Connections	N
Overall dimensions [WxDxH] [mm.]	40x40x110
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	0.2

Electrical Characteristics

Frequency Range [MHz]	DC to 1000 MHz
Insertion Loss [dB]	< 0.15
Input/Output Impedance [Ohm]	50
Operating Voltage [Vdc]	5 ÷ 24V
Control Voltage [Vdc]	5 ÷ 24V
Switch-over Time [s]	< 1

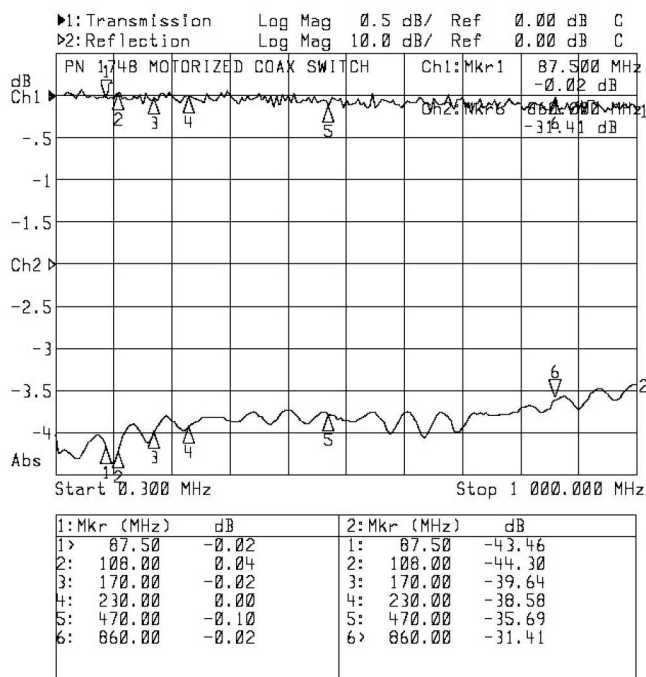
Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 30	> 26
Insulation [dB]	>45	> 40	> 35
Max. power [W]	700	500	250

D-SUB 9 POLE



PIN	
1	+V (5÷24V)
2	GND
3	n.c
4	Switching command impulse
5	n.c
6	n.c
7	Position 1 (AB-CD)
8	Position 2 (DA-BC)
9	Position switch common

- Operating voltage and control voltage from 5V to 24V without any setting change.
- Manual operation available in case of failure.
- The smallest motorized coaxial switch on the market.



Mechanical Characteristics

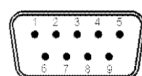
Connections	N
Overall dimensions [WxDxH] [mm.]	40x40x110
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	0.2

Electrical Characteristics

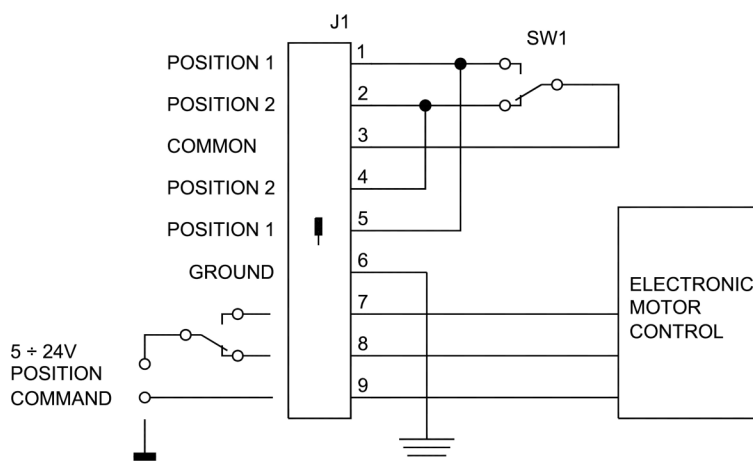
Frequency Range [MHz]	DC to 1000 MHz
Insertion Loss [dB]	< 0.15
Input/Output Impedance [Ohm]	50
Operating Voltage [Vdc]	5 ÷ 24V
Control Voltage [Vdc]	5 ÷ 24V
Switch-over Time [s]	< 1

Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 30	> 26
Insulation [dB]	> 45	> 40	> 35
Max. power [W]	700	500	250

- Operating voltage and control voltage from 5V to 24V without any setting change.
- Manual operation available in case of failure.
- The smallest motorized coaxial switch on the market.

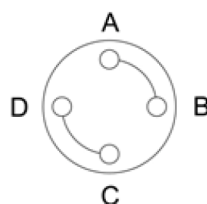


D-SUB 9 pin interconnection diagram

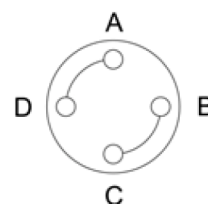


Interconnection shown in POSITION 1

POSITION 1



POSITION 2



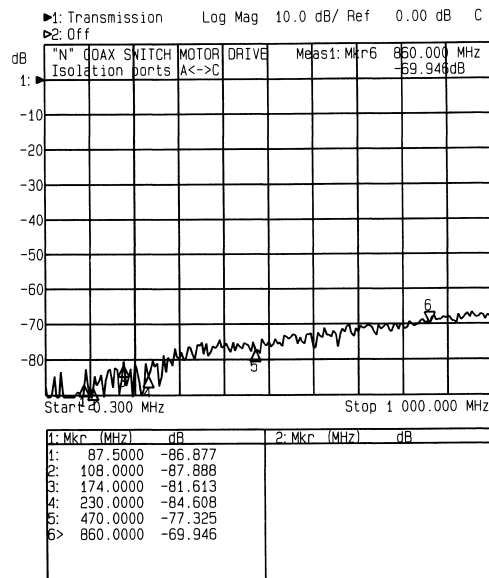
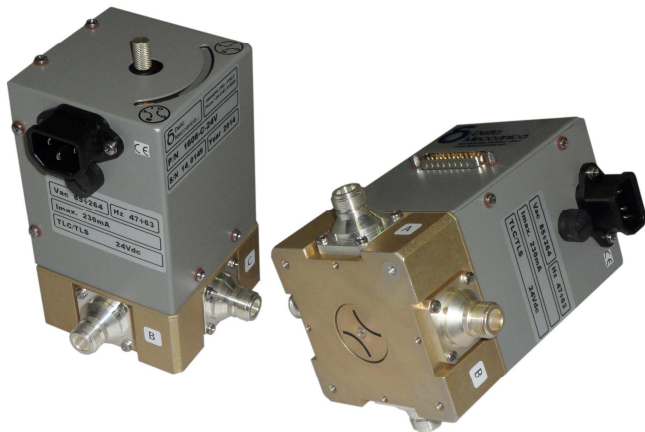
Technical data sheet

Part Number **1606-C**

Commutating line

DC ÷ 862MHz

Motorized Coaxial Switch N

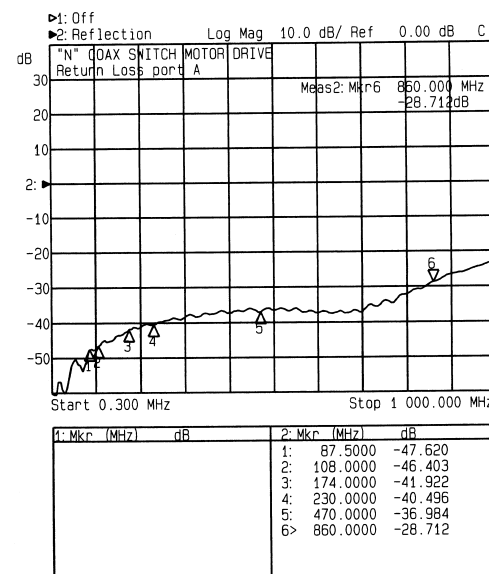


Mechanical Characteristics

Connections	N
Overall dimensions [WxDxH] [mm.]	125x125x160
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	1.7

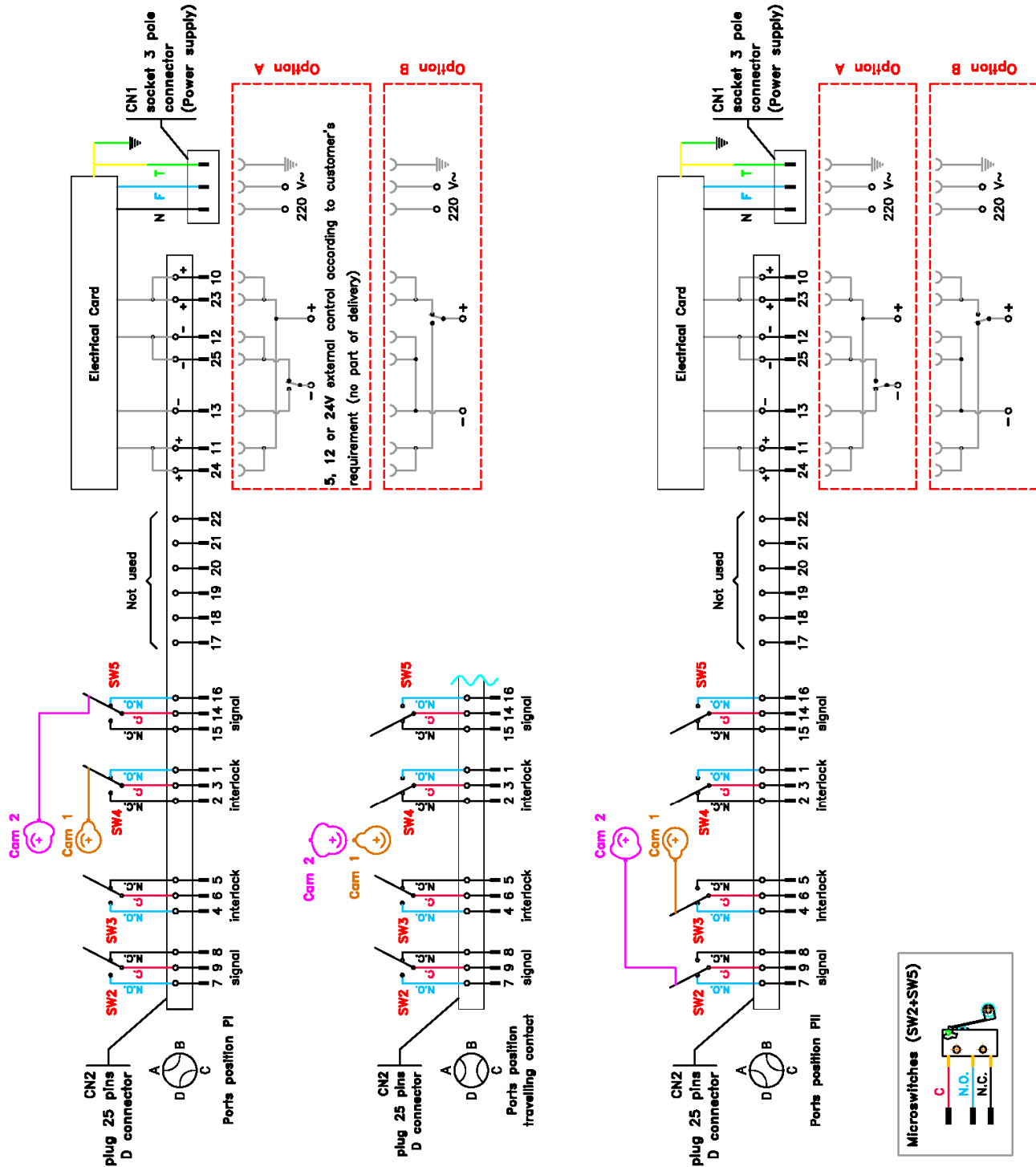
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vac]	85÷264 / 47÷63Hz
Control Voltage [Vdc]	5, 12 or 24
Switch-over Time [s]	< 1



Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 30	> 26
Insulation [dB]	> 80	> 75	> 65
Max. power [W]	500	400	200

Motorized Coax Switch Functional Diagram

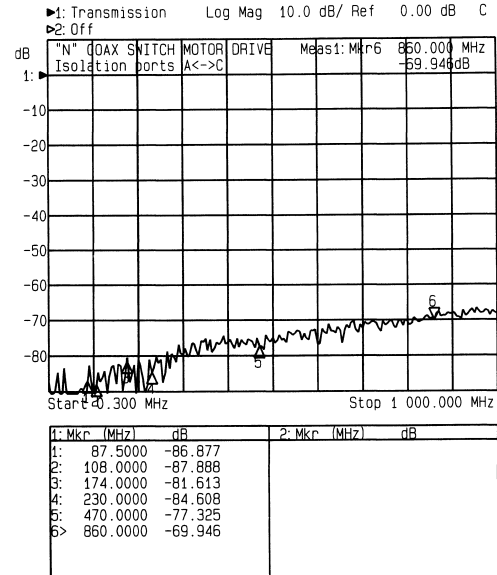


Technical data sheet

Part Number **1606-C2**

Commutating line

DC ÷ 862 MHz **Motorized Coaxial Switch N**

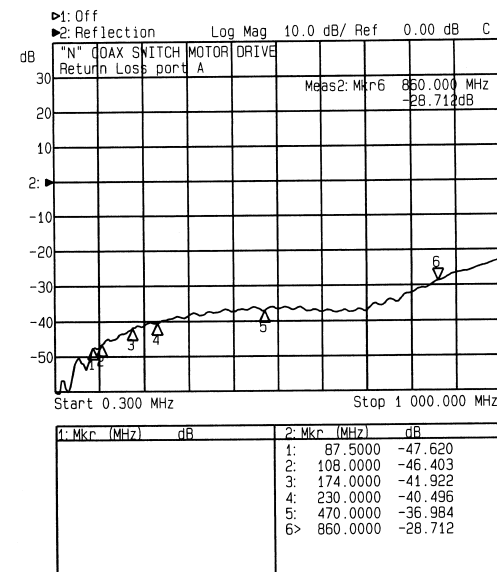


Mechanical Characteristics

Connections	N
Overall dimensions [WxDxH] [mm.]	125x125x160
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	1.8

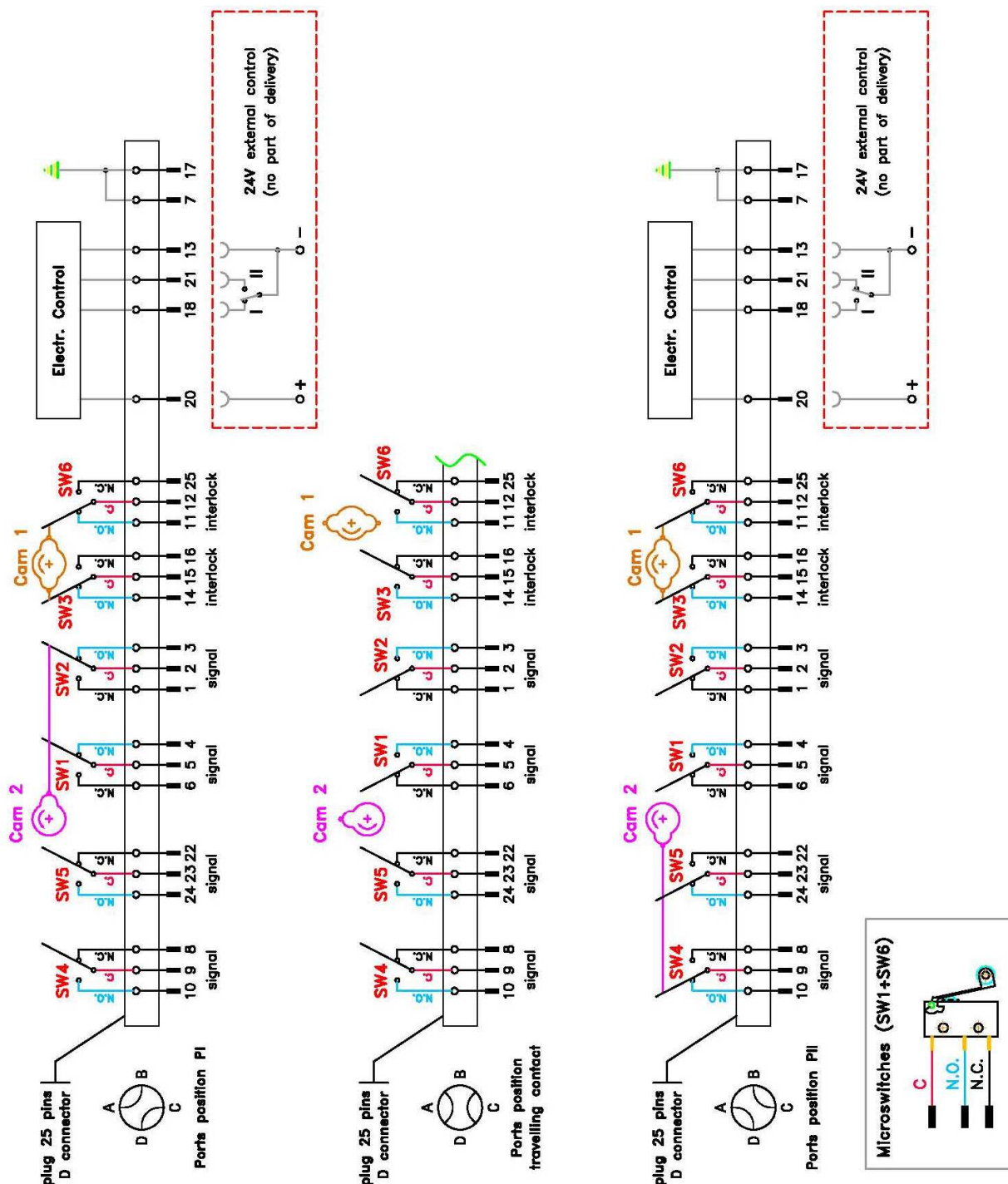
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vdc]	24
Control Voltage [Vdc]	24
Switch-over Time [s]	< 1



Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 30	> 26
Insulation [dB]	> 70	> 65	> 55
Max. power [W]	500	400	200

Motorized Coax Switch Functional Diagram



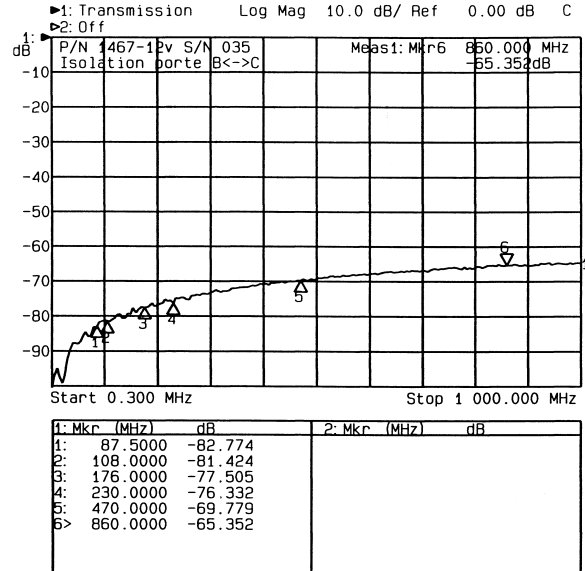
Technical data sheet

Part Number **1467**

DC ÷ 862MHz

Motorized Coaxial Switch 7/16

Commutating line

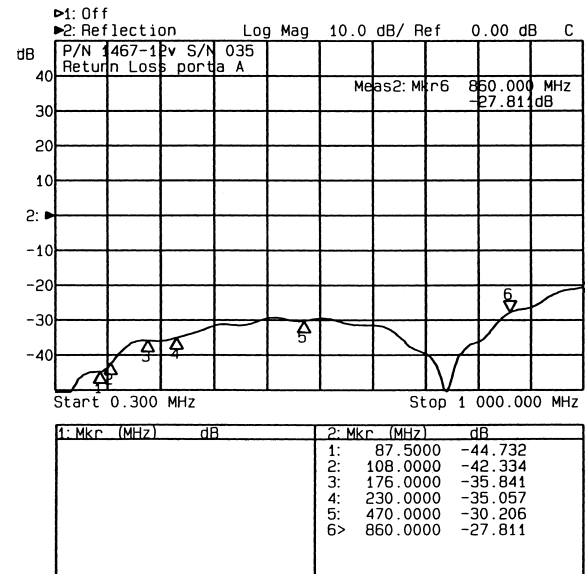


Mechanical Characteristics

Connections	DIN 7/16
Overall dimensions [WxDxH] [mm.]	117x117x160
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	1.7

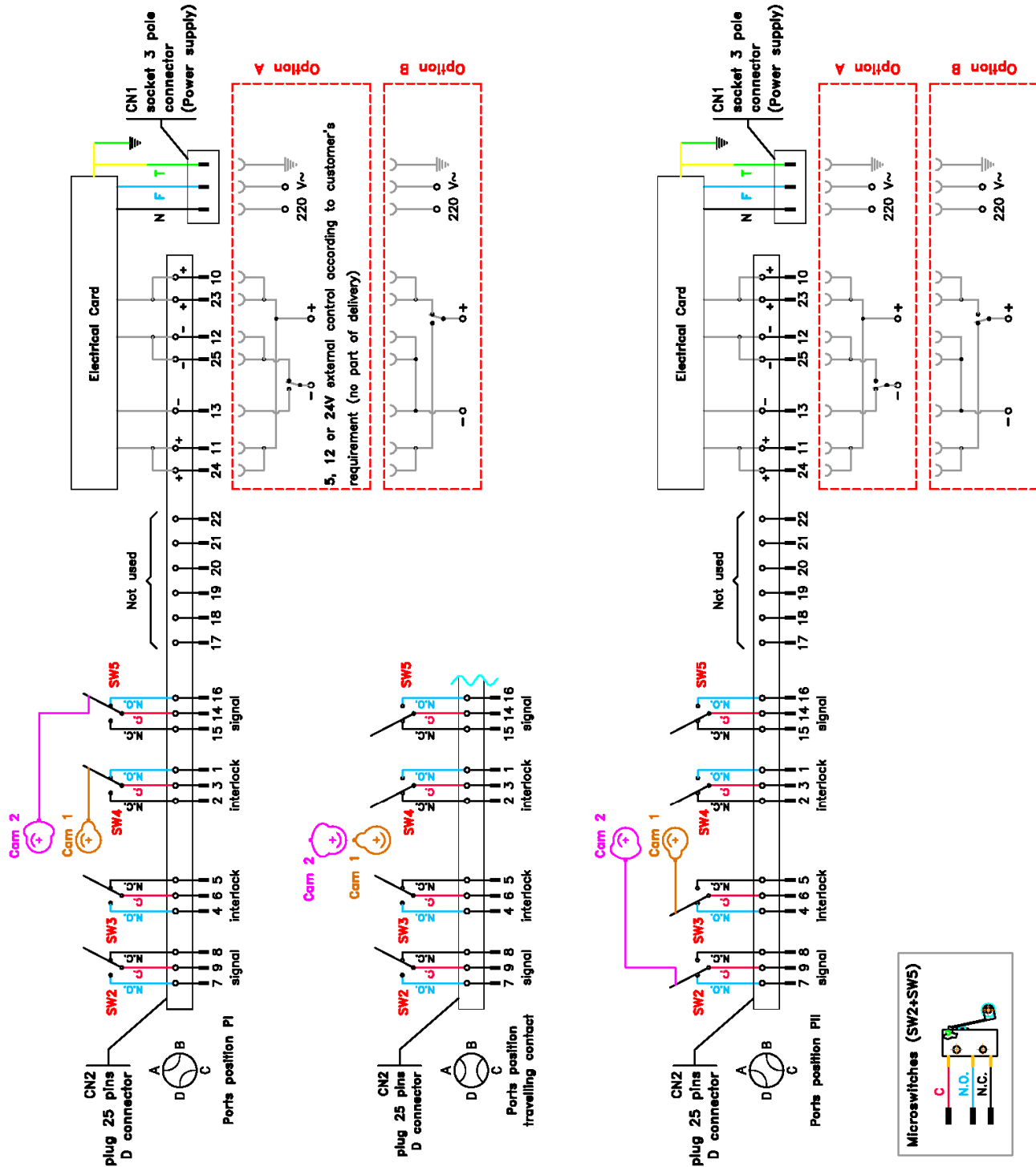
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vac]	85÷264 / 47÷63Hz
Control Voltage [Vdc]	5, 12 or 24
Switch-over Time [s]	< 1



Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 30	> 26
Insulation [dB]	> 80	> 75	> 65
Max. power [W]	2000	1200	1000

Motorized Coax Switch Functional Diagram

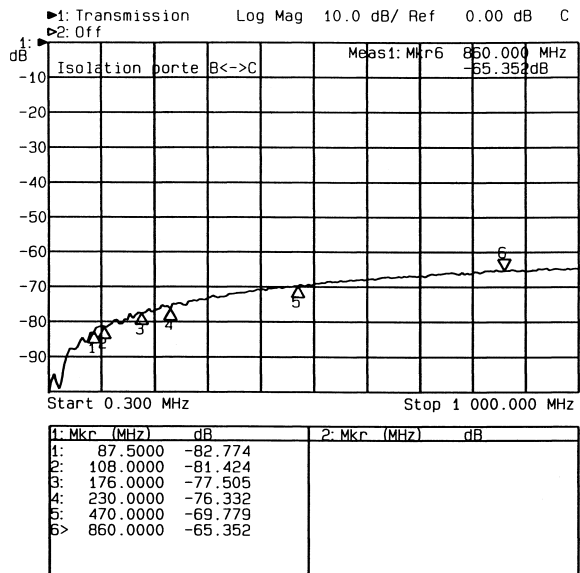


Technical data sheet

Part Number **1467-C**

Commutating line

DC ÷ 862MHz **Motorized Coaxial Switch 7/16**

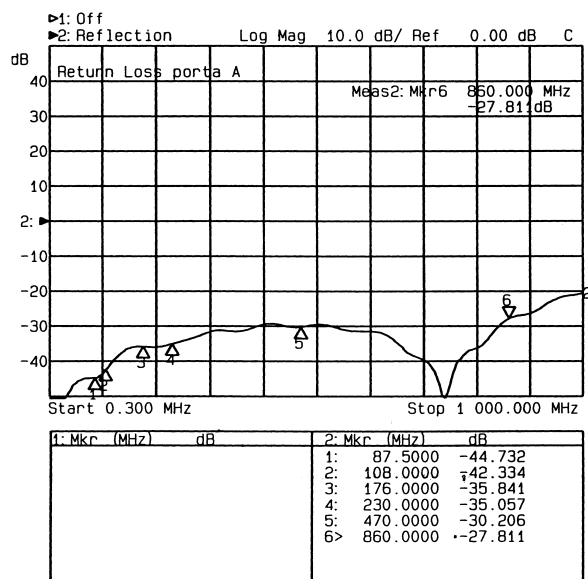


Mechanical Characteristics

Connections	DIN 7/16
Overall dimensions [WxDxH] [mm.]	117x117x160
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	1.8

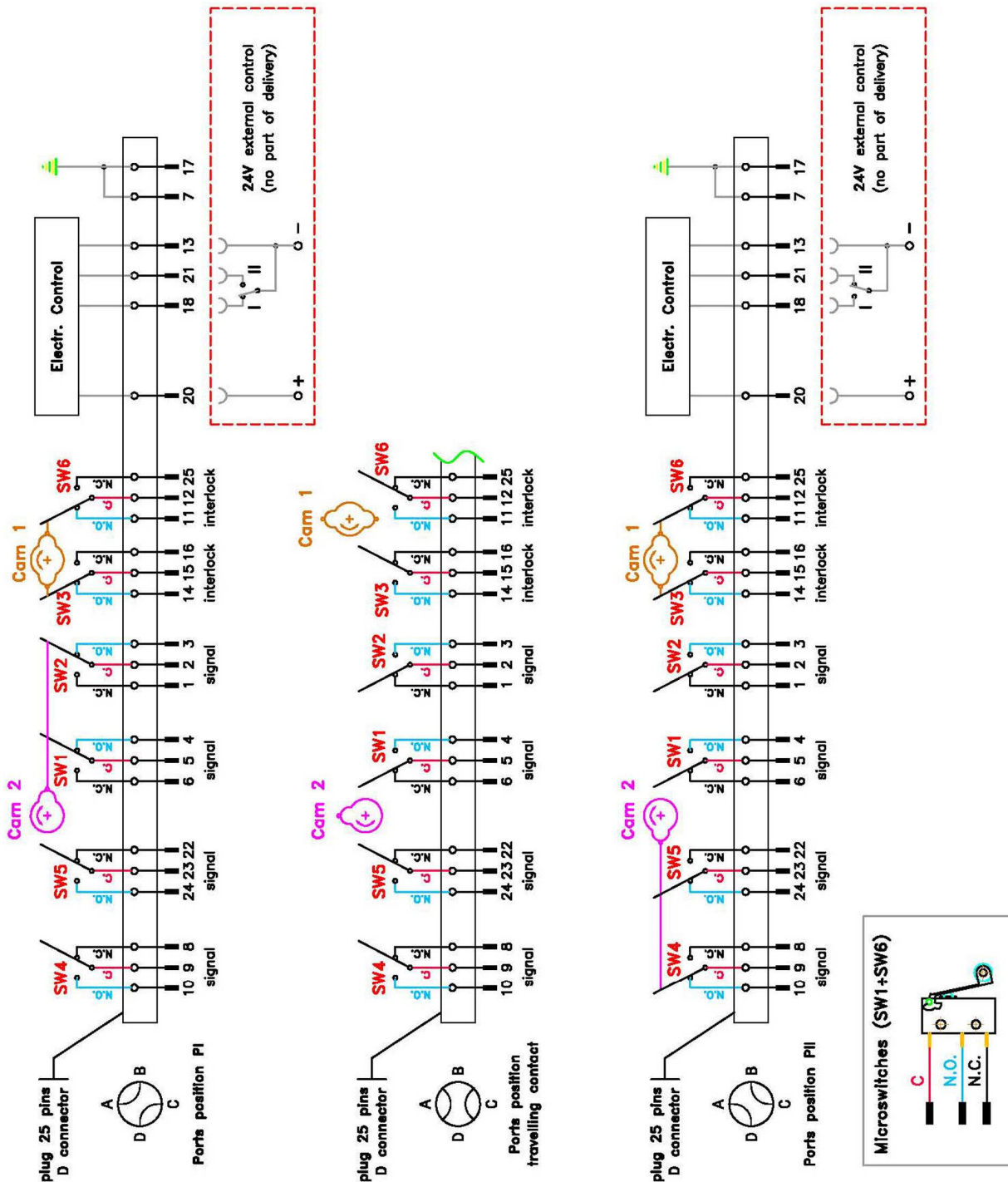
Electrical Characteristics

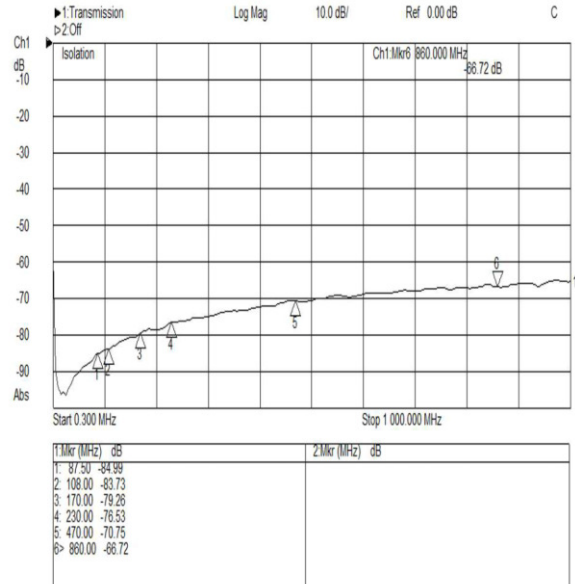
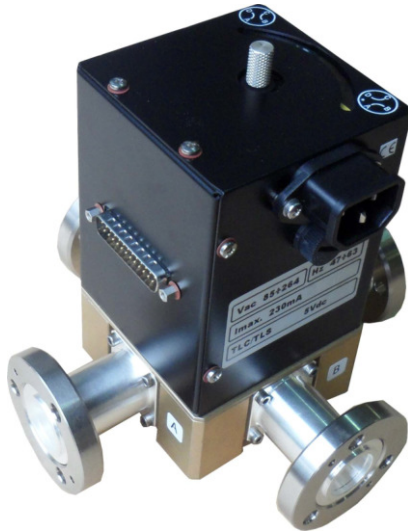
Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vdc]	24
Control Voltage [Vdc]	24
Switch-over Time [s]	< 1



Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 30	> 26
Insulation [dB]	> 80	> 75	> 65
Max. power [W]	2000	1200	1000

Motorized Coax Switch Functional Diagram



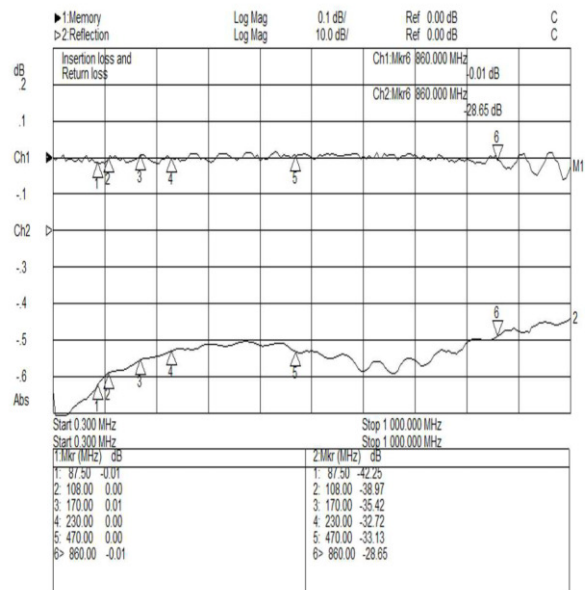


Mechanical Characteristics

Connections	EIA 7/8"
Overall dimensions [WxDxH] [mm.]	167x167x168
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	2.5

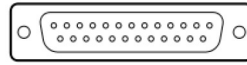
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vac]	85÷264 / 47÷63Hz
Control Voltage [Vdc]	5, 12 or 24
Switch-over Time [s]	< 1

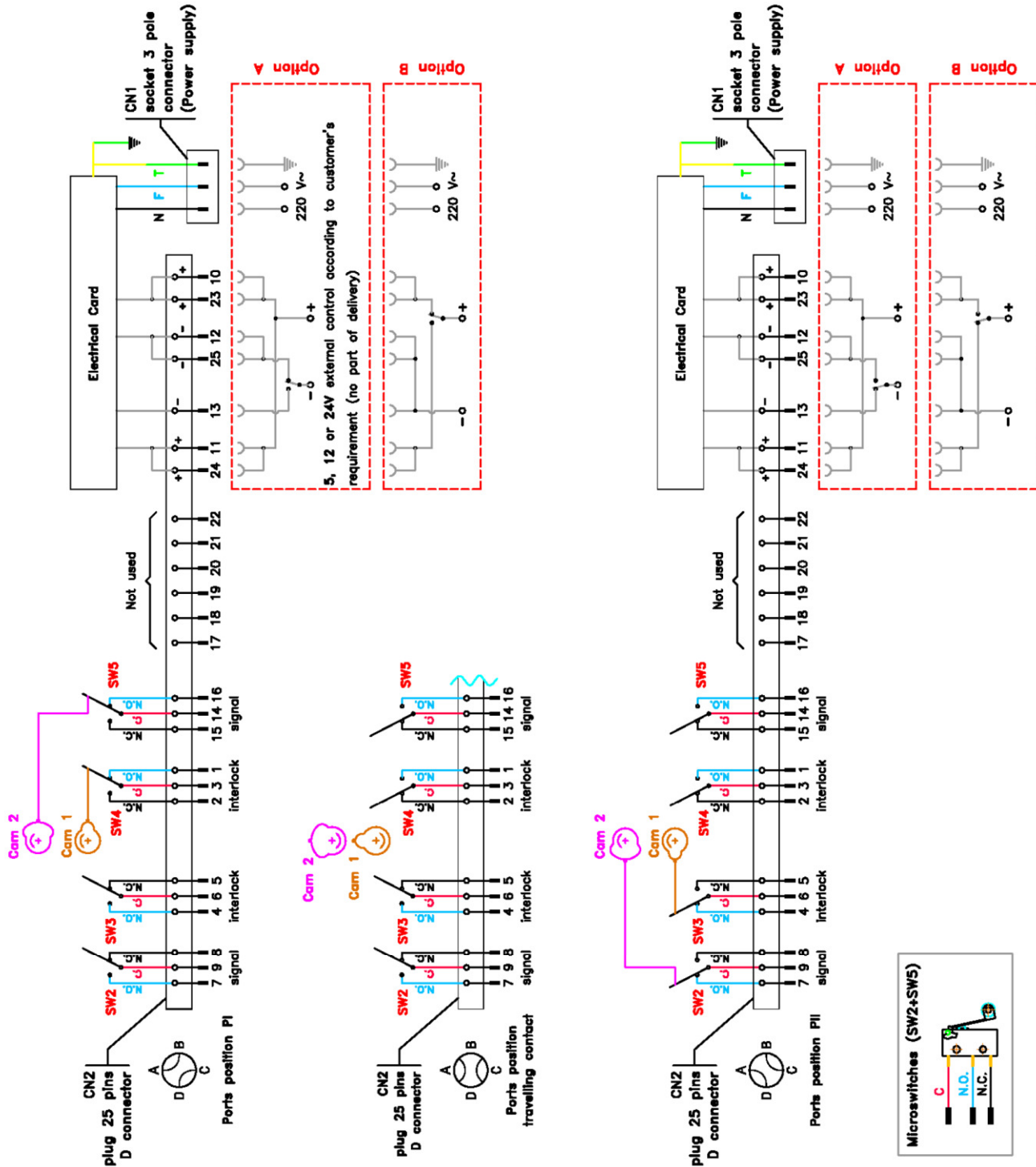


Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 35	> 30	> 26
Insulation [dB]	> 70	> 65	> 55
Max. power [W]	5000	3500	2000

Motorized Coax Switch Functional Diagram



D-SUB 25 male

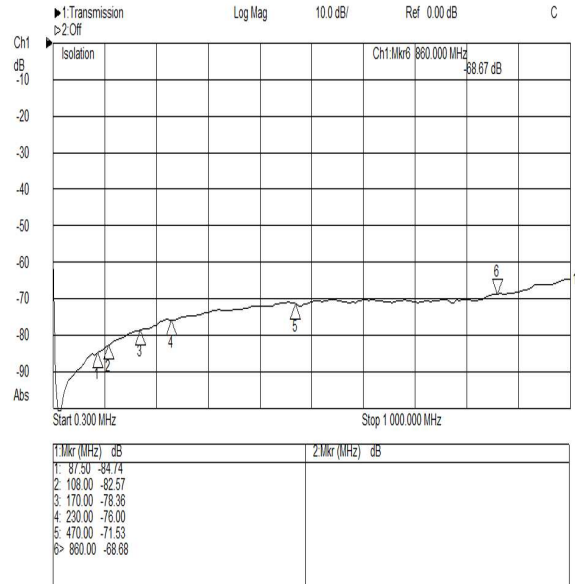


Technical data sheet

Part Number **1364**

Commutating line

DC ÷ 862MHz **Motorized Coaxial Switch 1 5/8"**

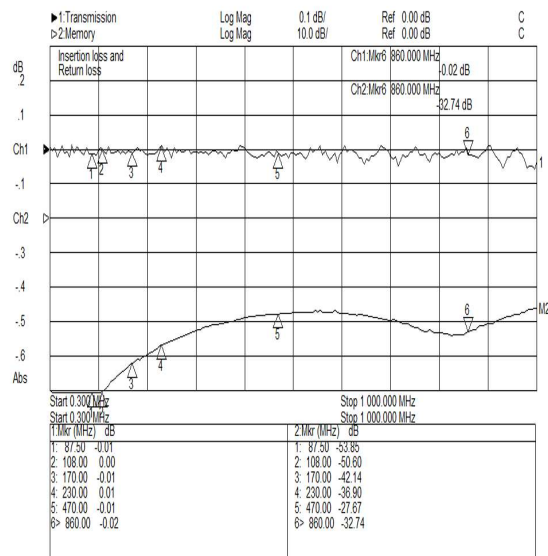


Mechanical Characteristics

Connections	EIA 1 5/8"
Overall dimensions [WxDxH] [mm.]	205x205x295
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	6.5

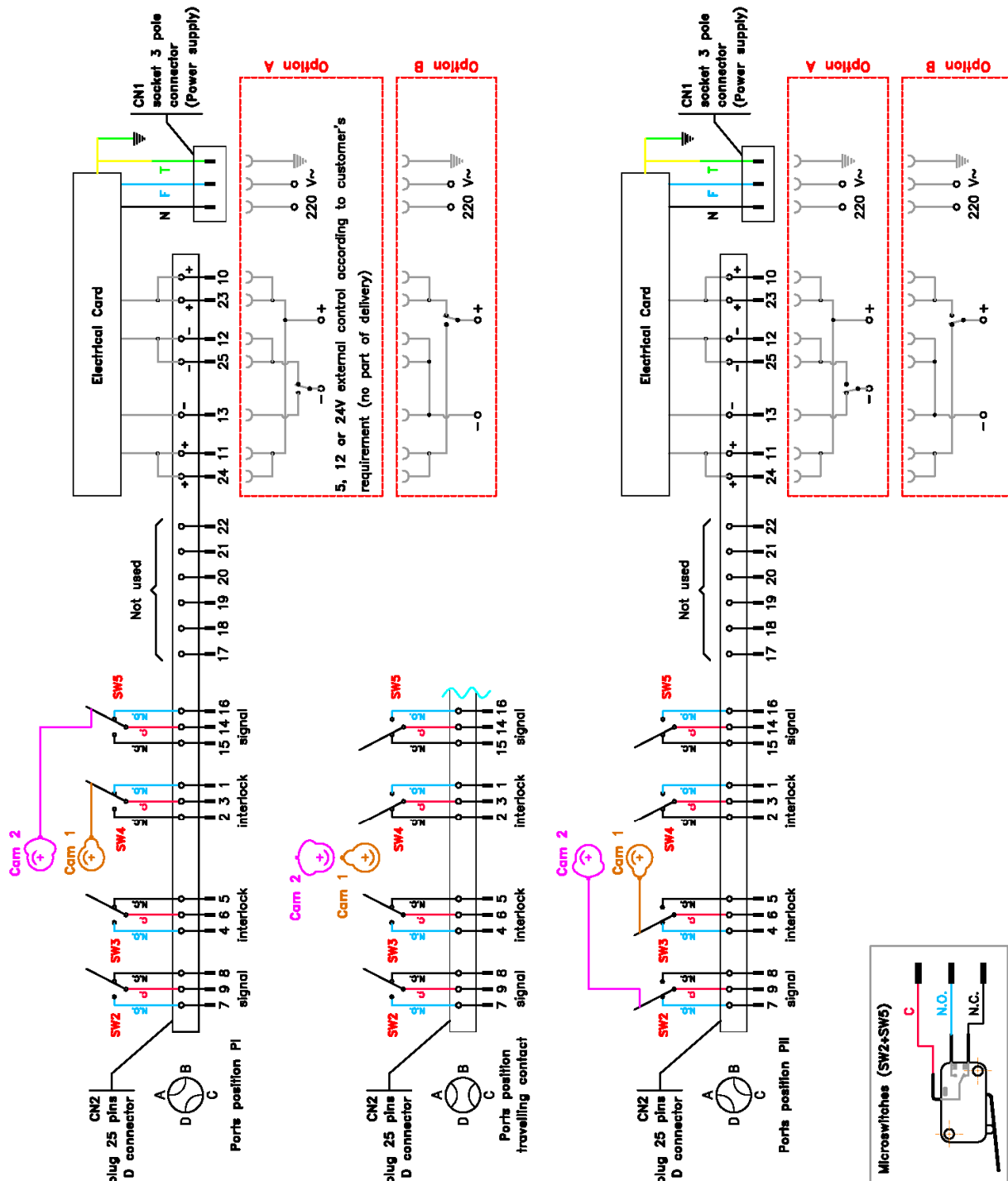
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vac]	220÷230 / 50 or 60Hz
Control Voltage [Vdc]	5, 12 or 24
Switch-over Time [s]	< 3.3



Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 35	> 26
Insulation [dB]	> 80	> 65	> 60
Max. power [W]	10000	8000	5000

Motorized Coax Switch Functional Diagram

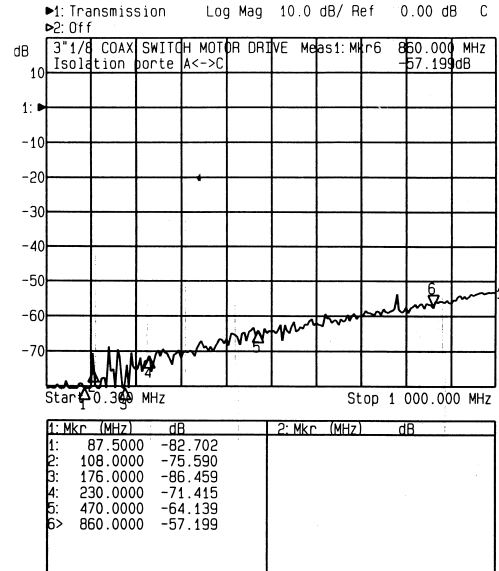


Technical data sheet

Part Number **1405**

Commutating line

DC ÷ 862MHz **Motorized Coaxial Switch 3 1/8"**

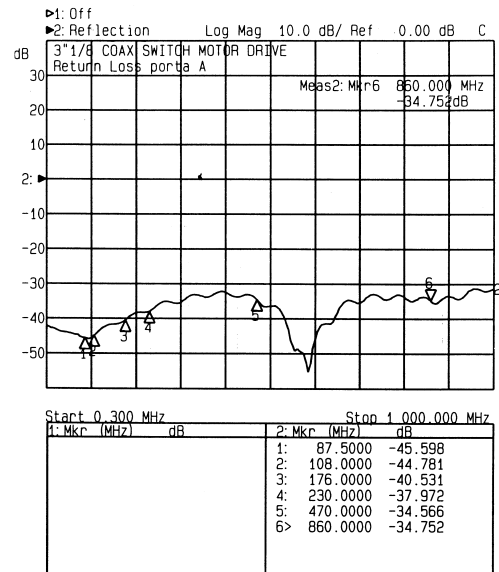


Mechanical Characteristics

Connections	EIA 3 1/8"
Overall dimensions [WxDxH] [mm.]	280x280x340
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	14

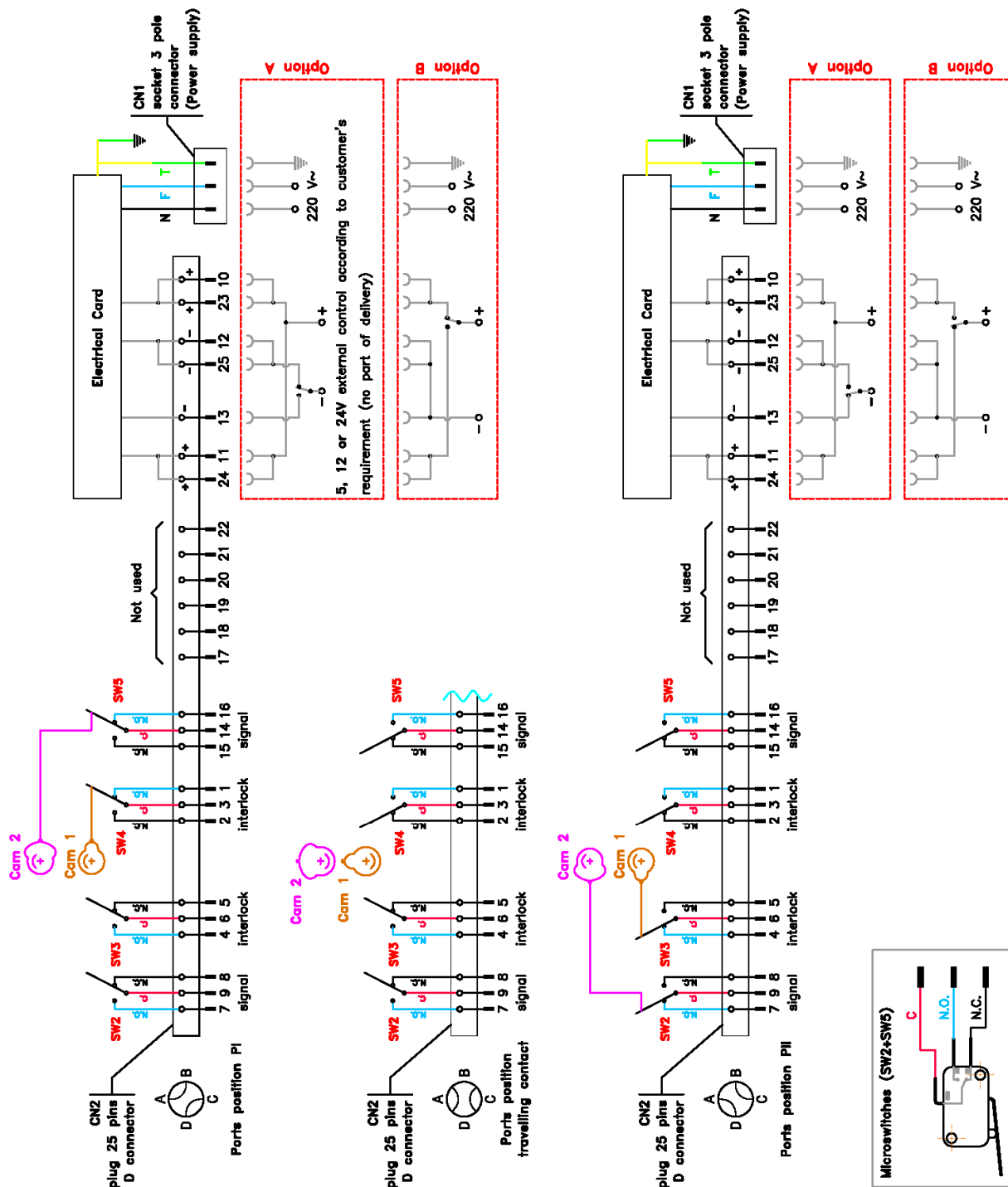
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vac]	220÷230 / 50 or 60Hz
Control Voltage [Vdc]	5, 12 or 24
Switch-over Time [s]	< 3.3



Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 35	> 30
Insulation [dB]	> 75	> 70	> 55
Max. power [W]	40000	30000	18000

Motorized Coax Switch Functional Diagram

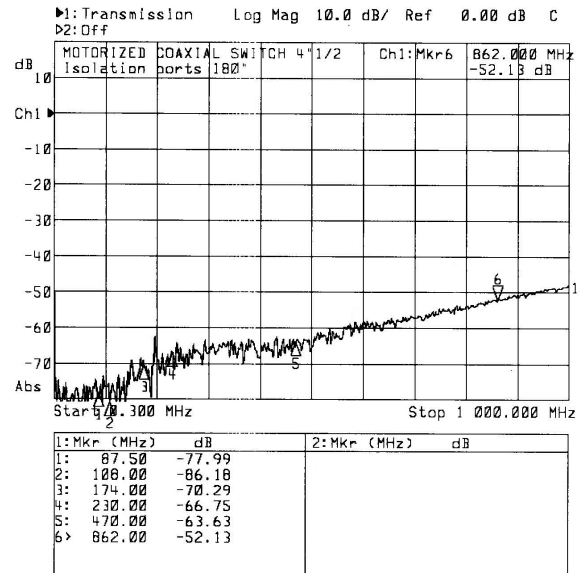


Technical data sheet

Part Number 1719

Commutating line

DC ÷ 862MHz Motorized Coaxial Switch 4 1/2"

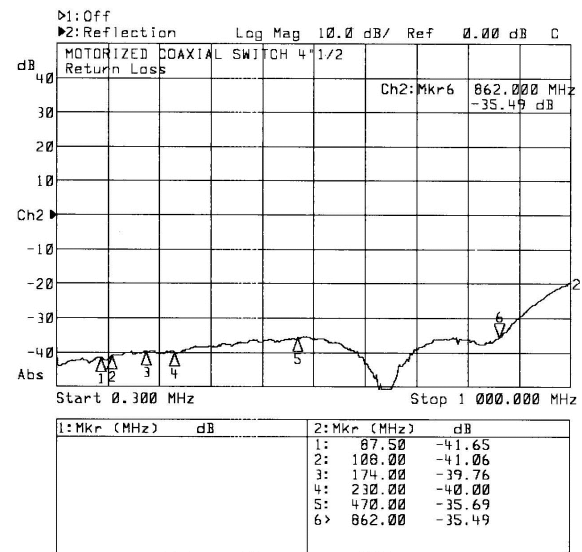


Mechanical Characteristics

Connections	EIA 4 1/2"
Overall dimensions [WxDxH] [mm.]	365x365x391
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	29

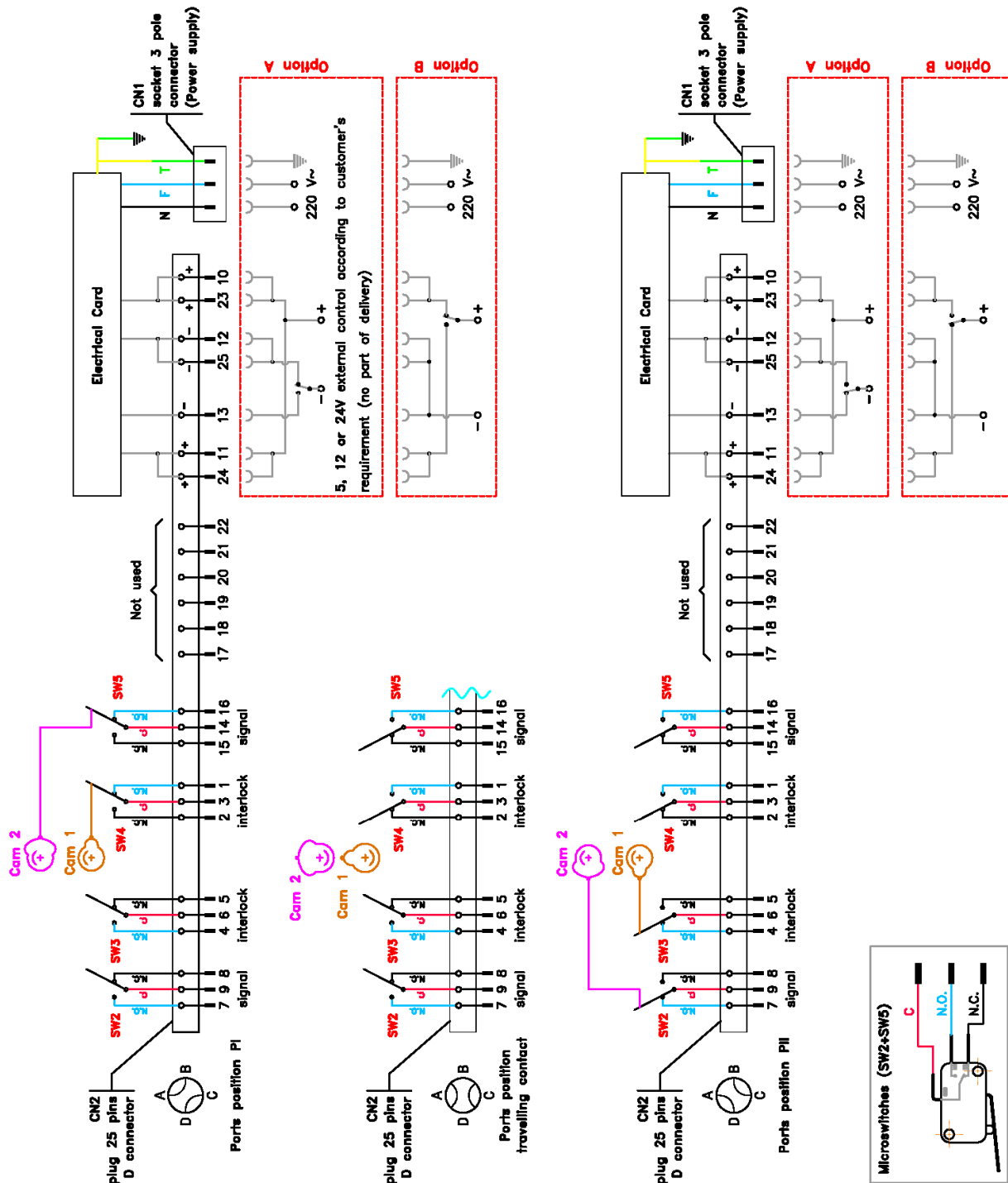
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vac]	220÷230 / 50 or 60Hz
Control Voltage [Vdc]	5, 12 or 24
Switch-over Time [s]	< 3.3



Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 40	> 38	> 30
Insulation [dB]	> 75	> 65	> 52
Max. power [W]	85000	60000	30000

Motorized Coax Switch Functional Diagram



ACCESSORIES FOR MOTORIZED COAXIAL SWITCH

Part Number **1485-ATS2**

The Automatic Transmitter Switch (ATS2) is 1+1 passive reserve controller monitoring the correct operating state of a transmitting equipment, allowing to detect possible failures, and automatically replacing it with a reserve transmitter if needed.

19" 1HE

Manual and Automatic switch-over

Time switch option

Audio (Stereo and MPX) distribution with 19kHz pilot switch for external RDS encoder

Video and ASI distribution

RF monitoring through DC input level or by contacts

No calibration point

Intervention thresholds user adjustable between -0.5dB and -6.0dB

2 different alarm mask time user selectable

Calibration of power reference level (0dB)

Alarm log

Display for complete user interface

Led on front panel for quick status view

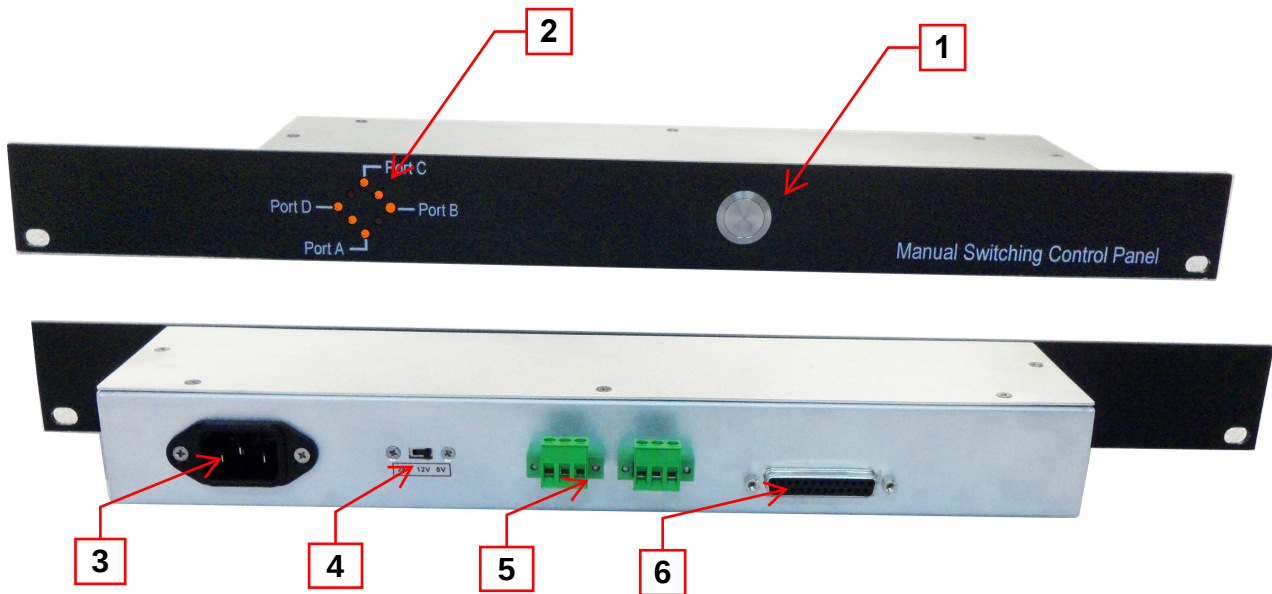
Serial (USB and RS485) and parallel remote control

TCP/IP available (Option)

Dummy Load handling contacts

Double redundancy Power Supply (Option)

Part Number 1676 Manual Switching Control Panel



Description:

Manual Switching Control Panel controls the switchover of our Motorized Coaxial Switches.

1. Switchover Push-button
2. Led position status Indicator
3. VDE power supply (110Vac or 230Vac)
4. Control Voltage selector switch (5V - 12V - 24V)
5. 3 poles interlock connection
6. 25 pin D-SUB female for Motorized coaxial switch connection

PATCH PANELS

Coaxial Manual Switch Patch Panels

Patch Panel

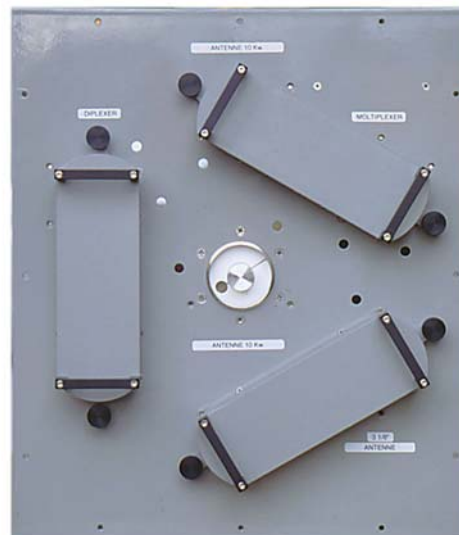
Delta Meccanica designs and produces a large range of Coaxial Manual Switch Patch Panels. According to specific Customers' requirements it is also possible to produce special configurations.

The Patch Panels are built with the best materials used for broadcast devices, in particular the body of the links are manufactured in light alloys and brass, and the contacts are fingers in beryllium copper, these contacts realize a low insertion loss and, at the same time, warrant a very good R. F. performances lasting for all the patch-panel life.

Our simple, reliable and easy to use disconnecting system doesn't need of any tools, permitting to perform the change over procedure in a short time. All the components have a galvanic surface treatment to give the best protection against corrosion, and to guarantee the best R. F. performances. In addition all the patch panels are supplied with micro-switches to assure the interruption of transmitters' power supply during the disconnecting operation.

Switch patch panels versions summary table

P/N	Connector	U-links / Ports
1339-716-3	7/16	1/3
1339-716-4-2	7/16	2/4
1339-78-3	EIA 7/8"	1/3
1339-78-4-2	EIA 7/8"	2/4
1339-78-5-2	EIA 7/8"	2/5
1339-78-6-3	EIA 7/8"	3/6
1339-78-7-3	EIA 7/8"	3/7
1339-78-8-4	EIA 7/8"	4/8
1339-158-3	EIA 1 5/8"	1/3
1339-158-4-2	EIA 1 5/8"	2/4
1339-158-5-2	EIA 1 5/8"	2/5
1339-158-6-3	EIA 1 5/8"	3/6
1339-158-7-3	EIA 1 5/8"	3/7
1339-158-8-4	EIA 1 5/8"	4/8
1339-158-9-4	EIA 1 5/8"	4/9
1339-158-12-6	EIA 1 5/8"	6/12
1339-318-3	EIA 3 1/8"	1/3
1339-318-4-2	EIA 3 1/8"	2/4
1339-318-5-2	EIA 3 1/8"	2/5
1339-318-6-3	EIA 3 1/8"	3/6
1339-318-7-3	EIA 3 1/8"	3/7
1339-318-8-4	EIA 3 1/8"	4/8
1339-318-9-4	EIA 3 1/8"	4/9
1339-318-12-6	EIA 3 1/8"	6/12
1339-412-3	EIA 4 1/2"	1/3
1339-412-4-2	EIA 4 1/2"	2/4
1339-618-3	EIA 6 1/8"	1/3



P.N. 1339-318-7-3
(3 1/8" seven ports / three U-links)

U-Links data

Mechanical characteristics

Temperature range (°C) -10 ÷ 50

Electrical characteristics

Frequency range (Mhz) DC to 860

Impedance (ohm) 50

Return Loss (dB) > 30

Coaxial Manual Switch Patch Panel

Patch panel

Right
P.N. 1339-158-6-2
(1 5/8" six ports / two U-Links)
*Note: the rear view show the interlock
system*

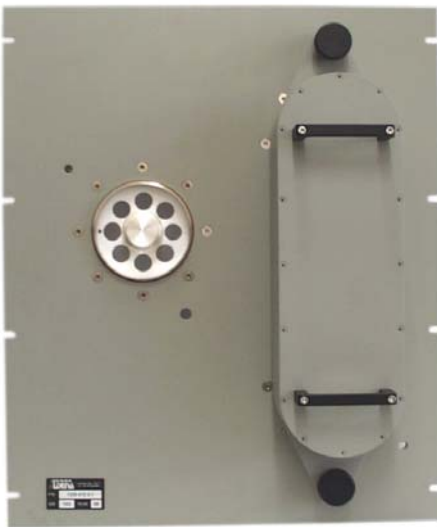


Front view

Rear view



Left
P.N. 1339-412-3
(4 1/2" three ports / one U-Links)



Right
P.N. 1339-618-3
(6 1/8" three ports / one U-Links)



Extra Safety Patch Panel

Patch Panel

This is a special version of a large choice of coaxial patch panels designed and produced by Delta Meccanica. This device permits to by-pass the motorized coaxial switch. When the electrical control devices, and the manual control system, are both in failure. The Delta Meccanica Technician designed a system which allow to remove the coaxial switch and use instead of it two manual links that can be connected in the same ports. According to specific Customers' requirements it is also Possible produce any special configuration.

P.N. 1616DM
2x2 Ports - 7/8" U-links



SWITCHING UNITS

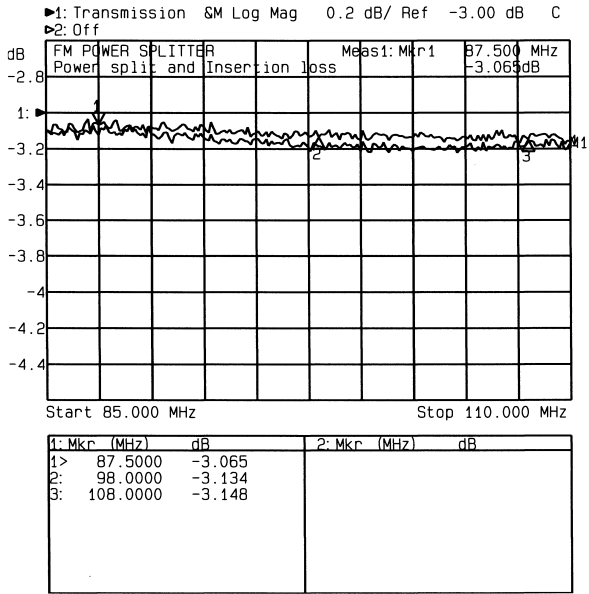
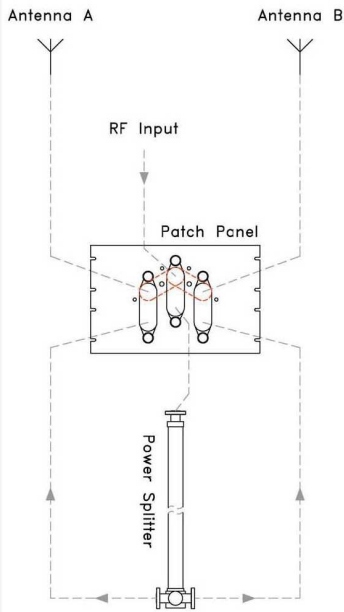
Patch panel/power divider for dual antenna system:

are becoming more and more requested in the plants where is required greatest reliability, and transmission stop cannot be acceptable. In practice, in normal working conditions, signal goes - crossing through a patch panel- to a power splitter, is splitted down in half and each half feeds an antenna system composed by 2 self reliant units.

This solution permits: in case of failure (or for maintenance reasons) of one of the 2 units, the other one may still work at full power, because the whole RF signal is switched on the operative antenna unit, by passing, by means of the patch panel, the power divider included on the system.

We delivered to a Dutch customer an equipment that manages three switching systems for as many antenna systems.

FM-Radio Band II Patch Panel/Power Divider for Dual Antenna System

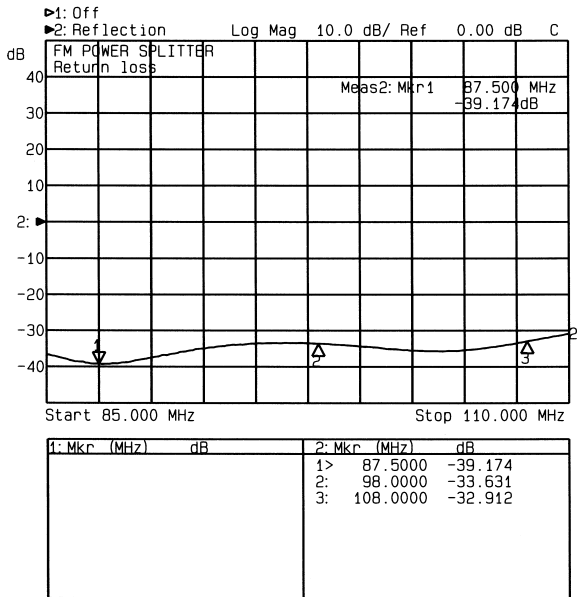


Mechanical Characteristics

Connections	EIA 7/8"
Overall dimensions [WxDxH] [mm.]	566x566x1900
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	50

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Return loss [dB]	> 30
Input Impedance [Ohm]	50
Power Split	3.0 dB
Power Handling (W)	6000

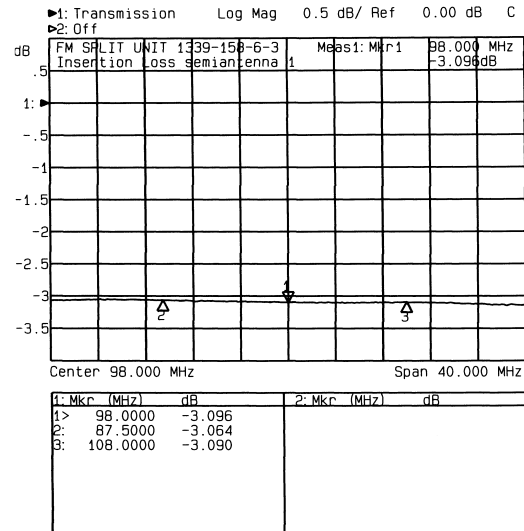
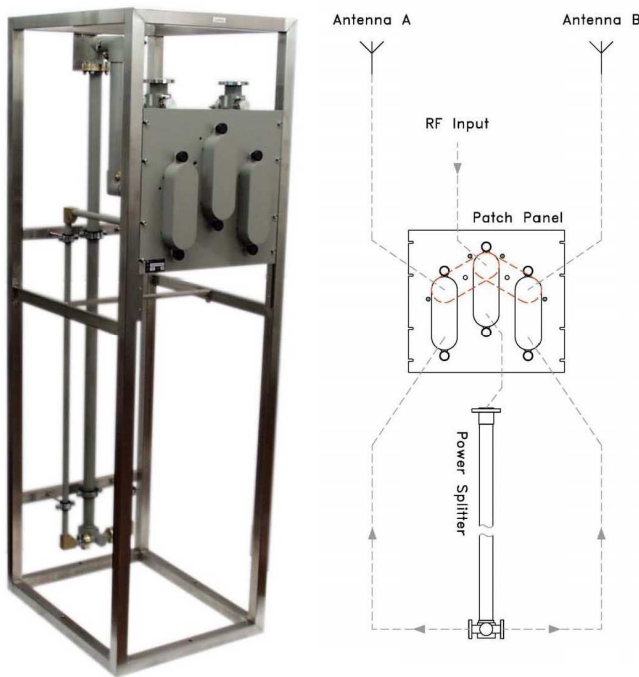


Technical data sheet

Part Number **FM-SU-1339-158-6-3**

Miscellaneous

FM-Radio Band II Patch Panel/Power Divider for Dual Antenna System

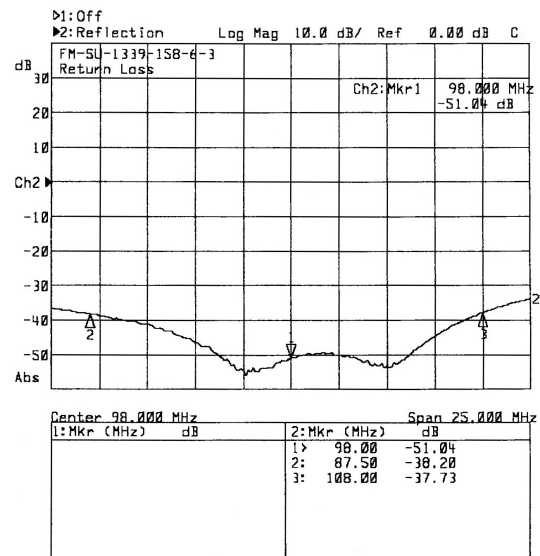


Mechanical Characteristics

Connections	EIA 1 5/8"
Overall dimensions [WxDxH] [mm.]	566x700x1900
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	70

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Return loss [dB]	> 30
Input Impedance [Ohm]	50
Power Split	3.0 dB
Power Handling (W)	15000

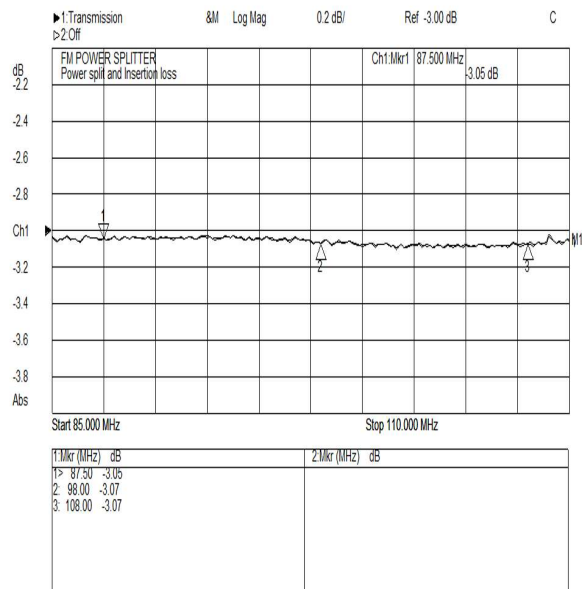
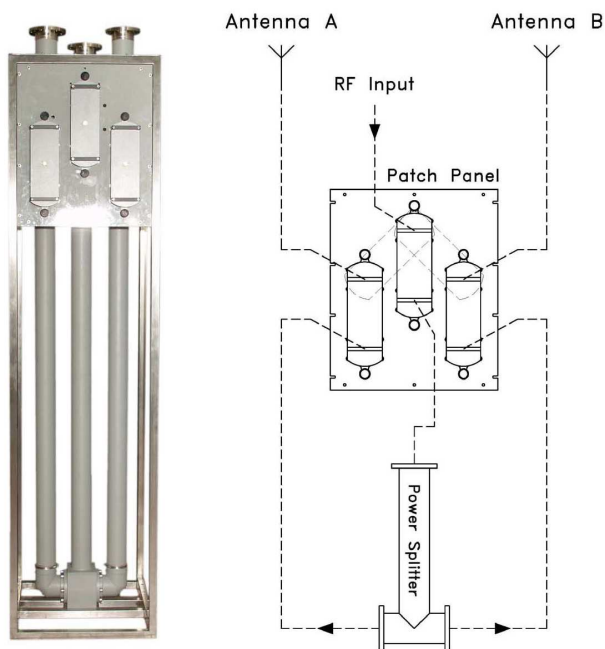


Technical data sheet

Part Number **FM-SU-1339-318-6-3**

Miscellaneous

FM-Radio Band II Patch Panel/Power Divider for Dual Antenna System

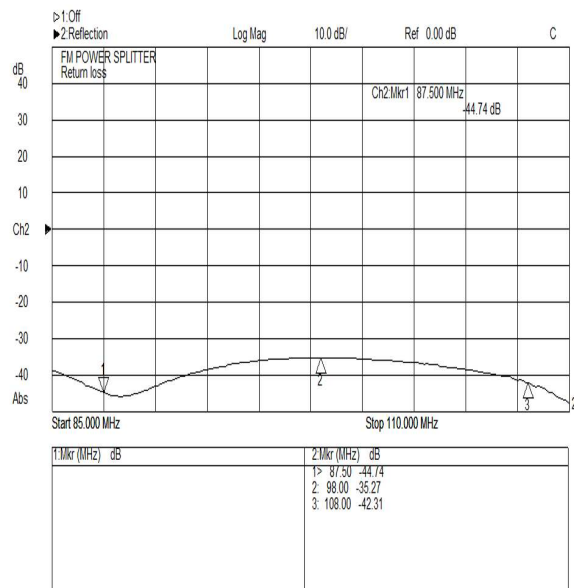


Mechanical Characteristics

Connections	EIA 3 1/8"
Overall dimensions [WxDxH] [mm.]	566x566x2190
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	150

Electrical Characteristics

Frequency Range [MHz]	87.5 ÷ 108
Return loss [dB]	> 30
Input Impedance [Ohm]	50
Power Split	3.0 dB
Power Handling (W)	40000



Technical data sheet

Part Number **UHF-SU-1339-412-6-3-C3**

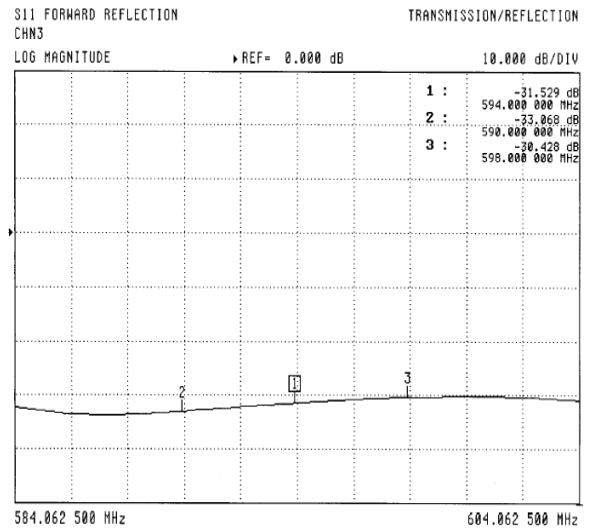
Miscellaneous

Band IV-V

EIA 4 1/2" Patch Panel/Power Divider for Dual Antenna System



UHF SWITCHING UNIT
Return loss Ch.36



Mechanical Characteristics

Connections	EIA 4 1/2"
Overall dimensions [WxDxH] [mm.]	660x780x2250
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	160

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Return loss [dB]	> 30 (on channel operation)
Input Impedance [Ohm]	50
Power Split	3.0 dB
Power Handling (W)	30000 r.m.s.

Technical data sheet

Part Number **UHF-SU-1339-618-6-3**

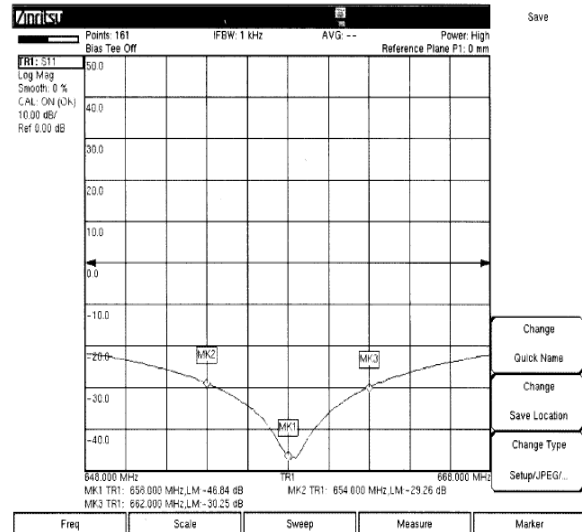
Miscellaneous

Band IV-V

EIA 6 1/8" Patch Panel/Power Divider for Dual Antenna System



Return loss Ch. 44



Mechanical Characteristics

Connections	EIA 6 1/8"
Overall dimensions [WxDxH] [mm.]	900x915x1800
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	224

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 750
Return loss [dB]	> 30 (on channel operation)
Input Impedance [Ohm]	50
Power Split	3.0 dB
Power Handling (W)	55000 r.m.s.

ACCESSORIES FOR SWITCHING UNITS

Part Number 1667 Monitoring Panel

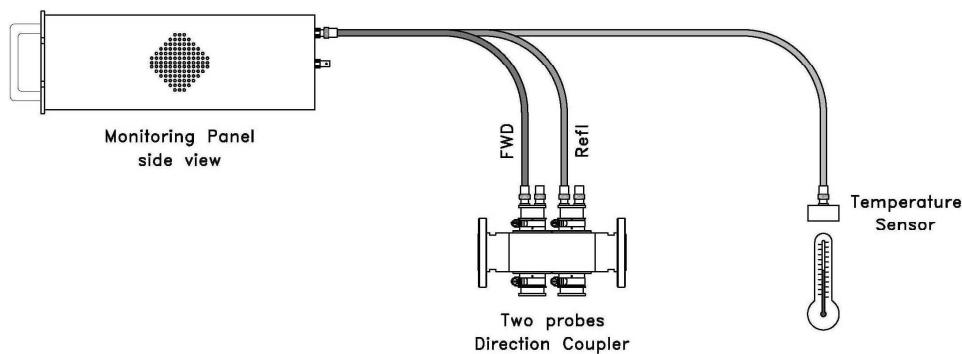

Monitoring Panel shows Refl. And Fwd. Power measures on its own screen , with great accuracy.

This device may manage up to 16 RF inputs, operator can choose, program and select what wants to monitor, moreover this equipment is also predisposed to detect temperatures, e.g. temperatures of filters or combiners, and may also show and manage alarm signals by RS485 Output .

RF inputs must be supplied via directional couplers probes , instead temperatures must be detected (up to 8 inputs) with temperature sensors, they send the signal to Monitoring Panel.

This device may be supplied as stand alone device in a standard 3 He 19" Rack case, or , more common solution, as patch panel outfit.

RF INPUT FEATURES	
RF INPUT NUMBER (MAX)	16
MAX RF FREQUENCY	862 MHz
RF INPUT LEVEL MAX	+20 dBm
RF INPUT LEVEL MIN	-15 dBm
RF INPUT ACCURACY	0.1dB @ +20dBm
	0.3dB @ -15dBm
INPUT RETURN LOSS	≤-26dB
RF MEASURE	RMS
TEMPERATURE INPUT FEATURES	
TEMP INPUT NUMBER (MAX)	8
TEMPERATURE SENSOR	10KΩ NTC Z CURVE
AC INPUT	
AC INPUT RANGE	85-265Vac 47-63HZ
CONSUMPTION	1.5A MAX @ 220Vac
OUTPUT CONTACT	
DRY CONTACT	24V 1A MAX



CUSTOM PRODUCTS

YEAR

2005

PRODUCT

Three Antenna Switching Unit FM System

CODE

3xFM-SU-1339-78-6-3

CUSTOMER

Broadcast Partners

COUNTRY

Holland

**YEAR**

2008

PRODUCT

2.5GHz DIN 7/16, 6 ports 3 U-Links patch panel

CODE

1339-716-6-3-C1

CUSTOMER

GENERAL DYNAMICS SATCOM TECHNOLOGIES

COUNTRY

TEXAS (U.S.A.)



WARRANTY CONDITIONS

DELTA MECCANICA warrants its products to be free of defects in material and workmanship for one year from the date of shipment.

DELTA MECCANICA agrees to service, adjust and/or replace any defective parts of any equipment returned to its plant, freight pre-paid by customer, within one year from the date of original shipment from its plant. This warranty is subject to the conditions that notice of any defect must be given to the DELTA MECCANICA within 15 days of the discovery of the defect.

Equipments tested and tuned on customer's frequency by DELTA MECCANICA are warranted only before shipment, according to the related diagrams or specifications reported on test's document.

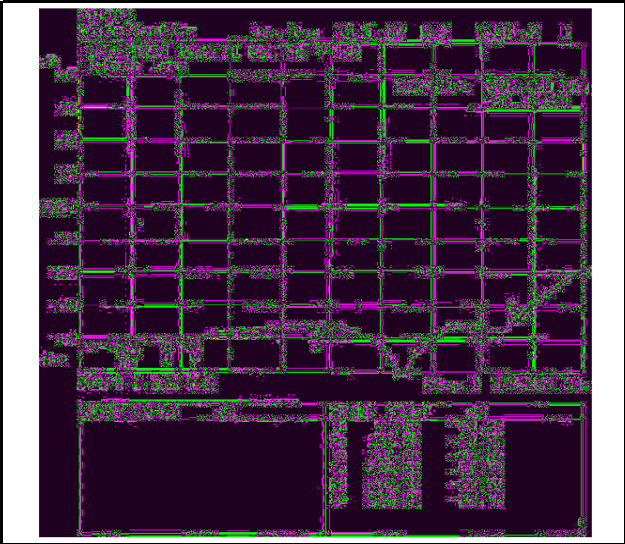
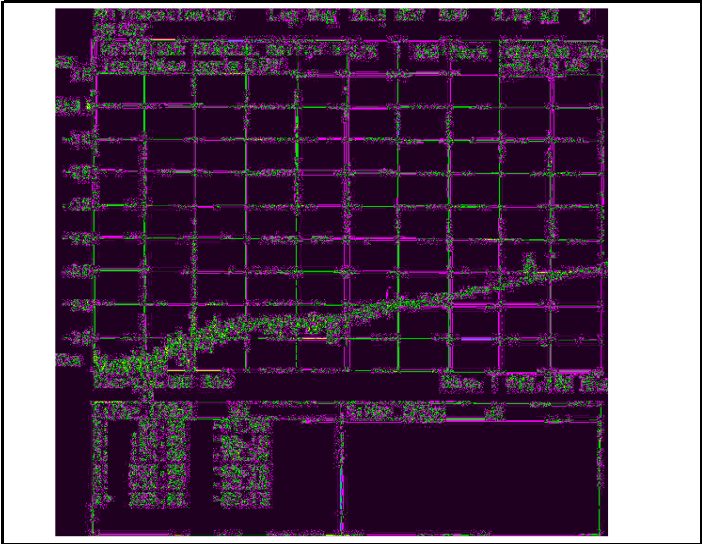
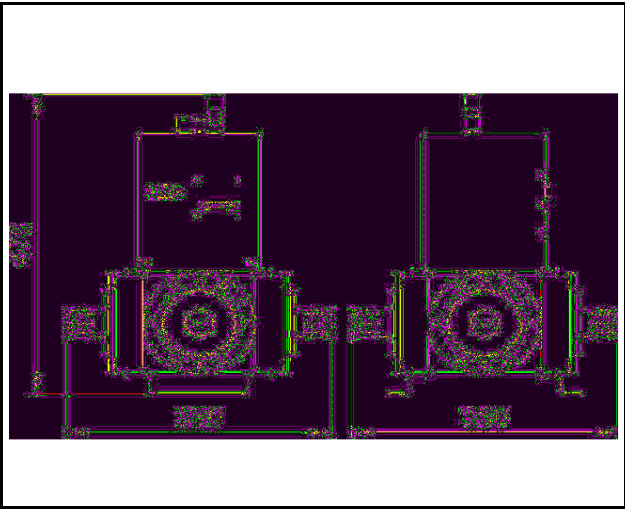
A careless handling and shipping can cause an alteration of tuning, for which DELTA MECCANICA will not be responsible in any way.

Notwithstanding Delta Meccanica will take the best care to tight the tuning controls, in any case before putting the devices on power, customer is requested to check that the equipments tuning is still exact, and didn't suffered any alterations during transport.

Any tampering (for example: partial disassembly) with our equipments, not authorized in writing by us, cancels, automatically, the present warranty.

PART NUMBER: 1719-416

TITLE: EIA 4 1/16" MOTORIZED COAXIAL SWITCH

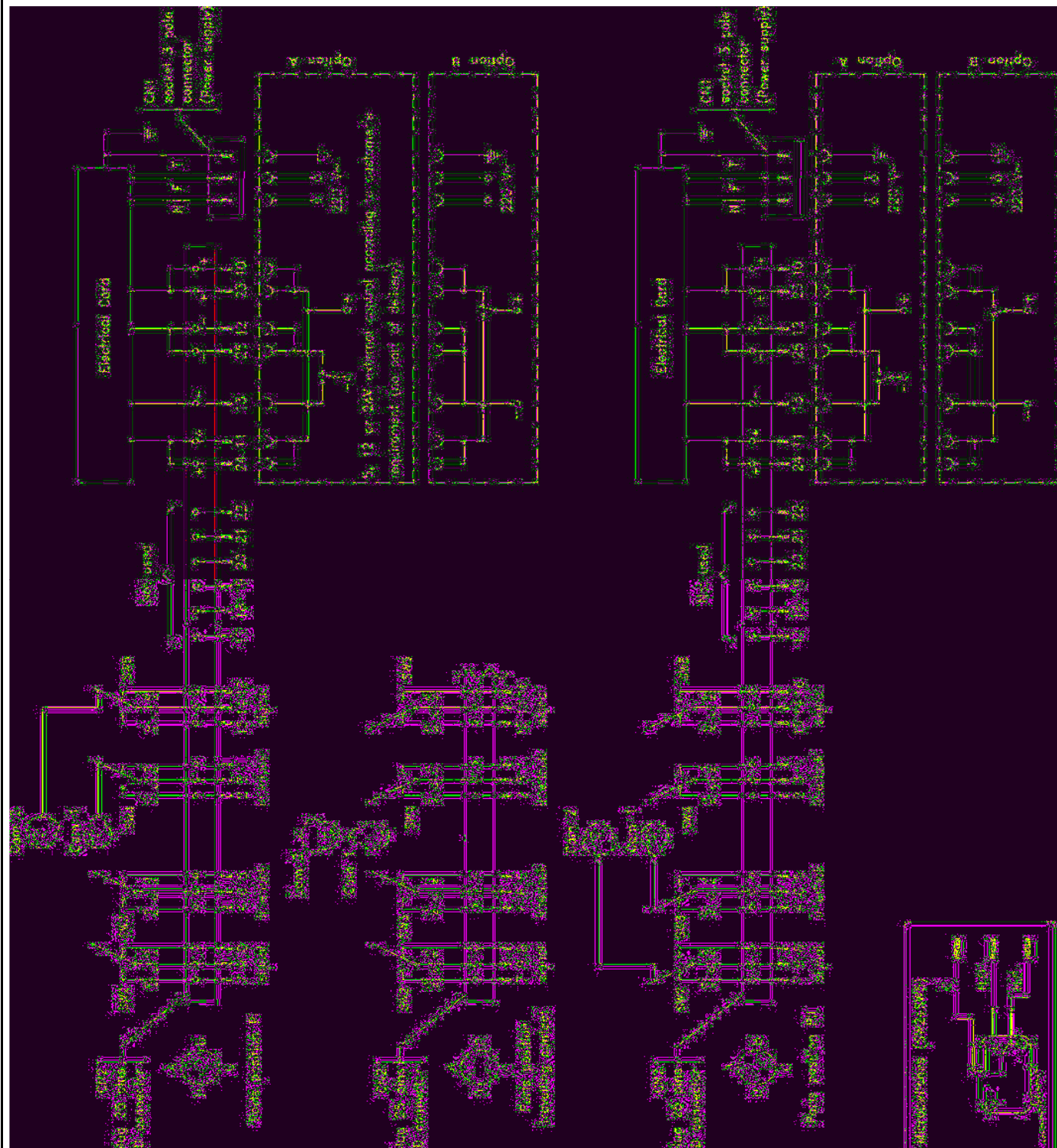


ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vac)	220÷230 / 50 or 60 Hz
Control Voltage (Vdc)	5V, 12V, 24V
Switch-over time (s)	< 3.3
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	EIA 4 1/16"
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	29

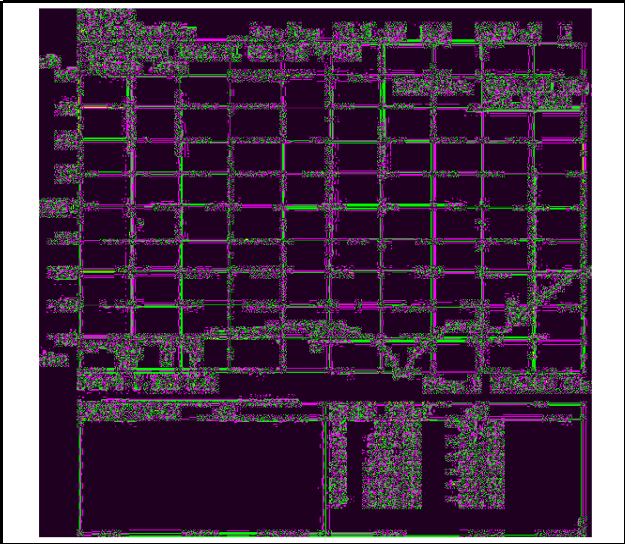
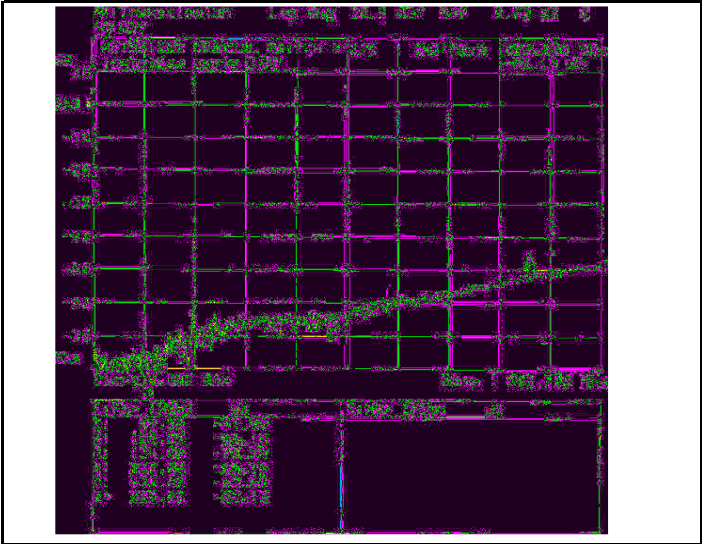
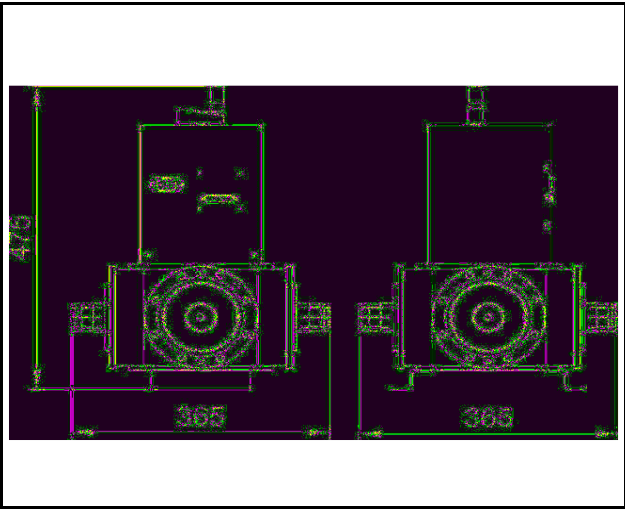
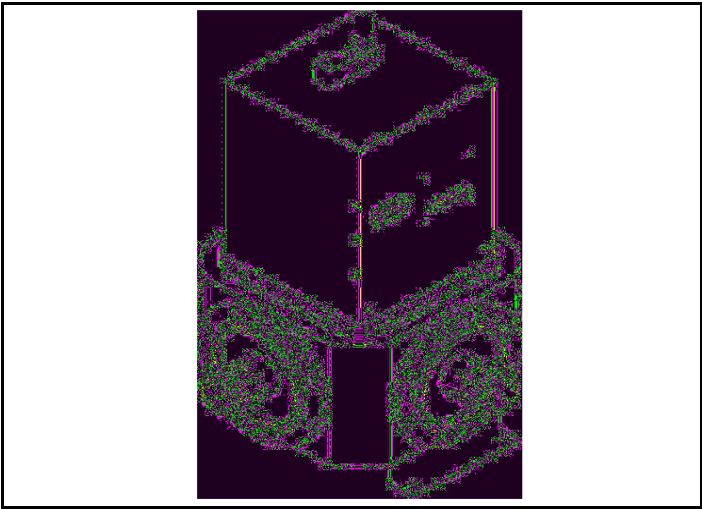
FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 40	> 38	> 30
Insulation (dB)	> 75	> 65	> 50
Max Power (W)	85000	60000	30000

TITLE: EIA 4 1/16" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1719

TITLE: EIA 4 1/2" MOTORIZED COAXIAL SWITCH



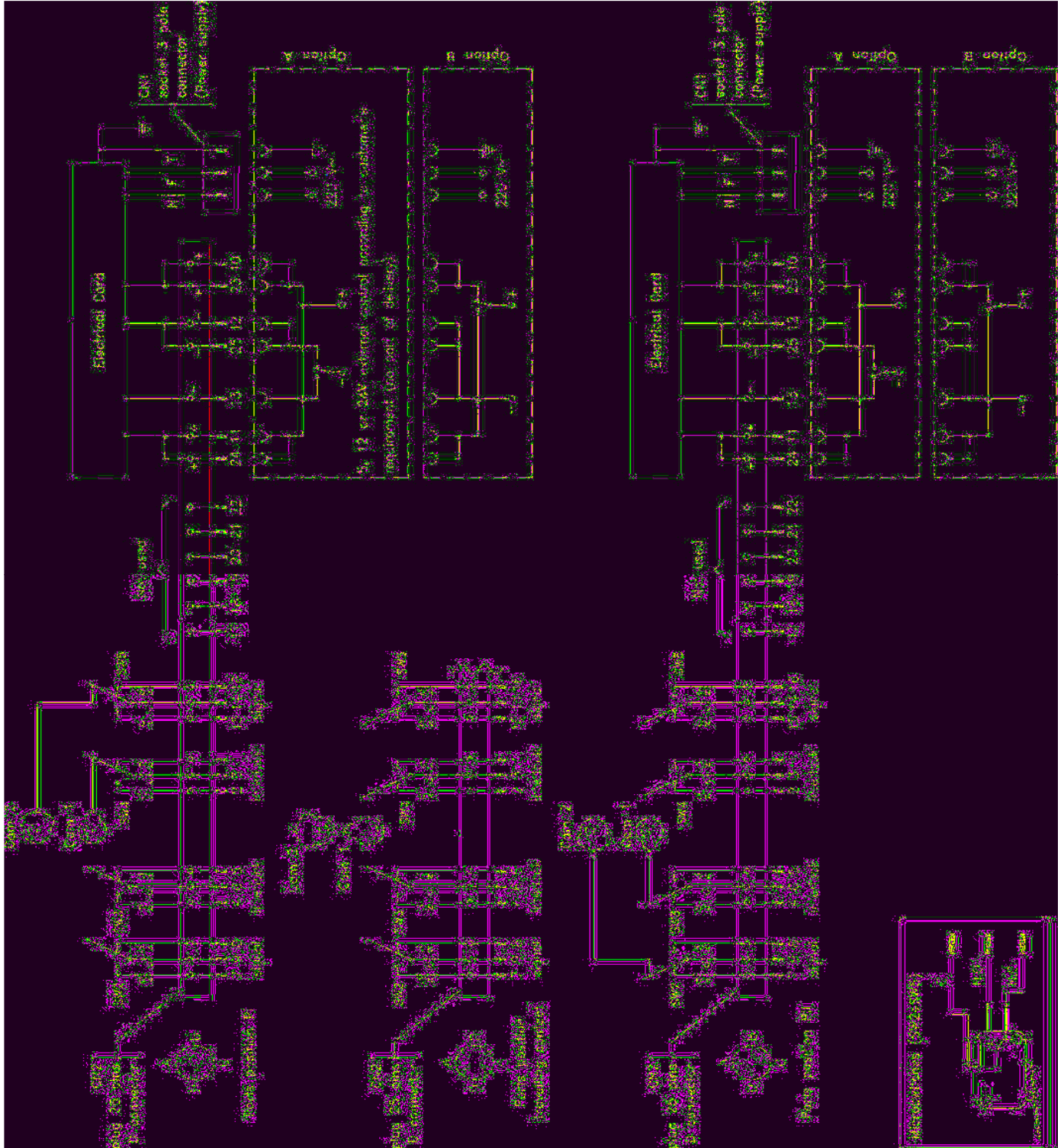
ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vac)	220÷230 / 50 or 60 Hz
Control Voltage (Vdc)	5V, 12V, 24V
Switch-over time (s)	< 3.3
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	EIA 4 1/2"
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	29

FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 40	> 38	> 30
Insulation (dB)	> 75	> 65	> 52
Max Power (W)	85000	60000	30000

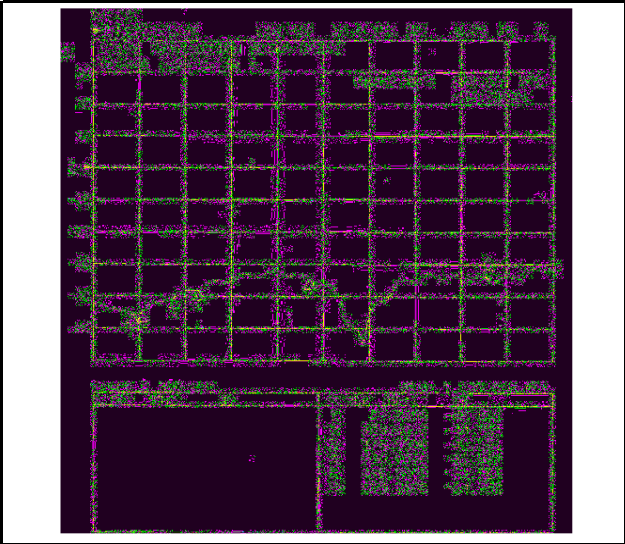
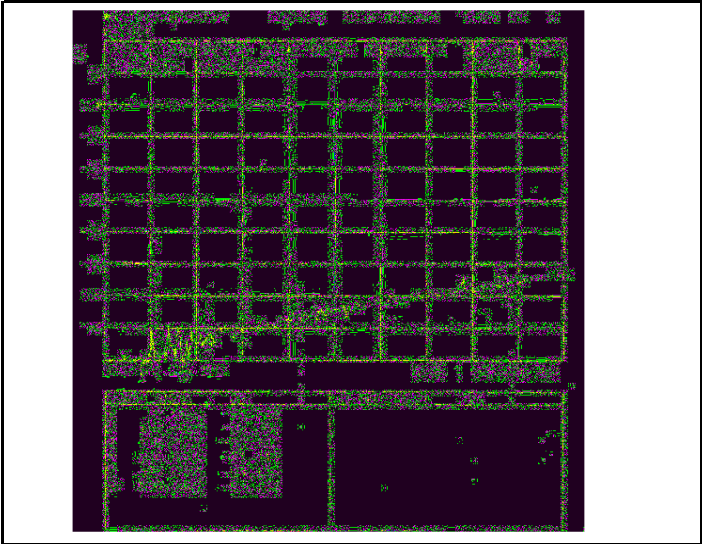
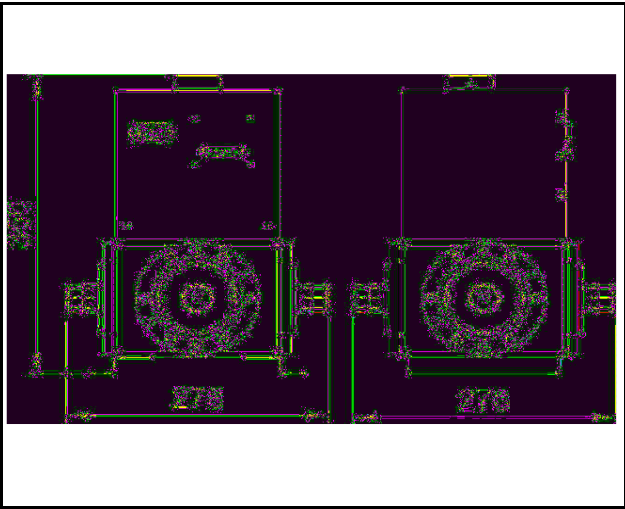
PART NUMBER: 1719

TITLE: EIA 4 1/2" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1405

TITLE: EIA 3 1/8" MOTORIZED COAXIAL SWITCH

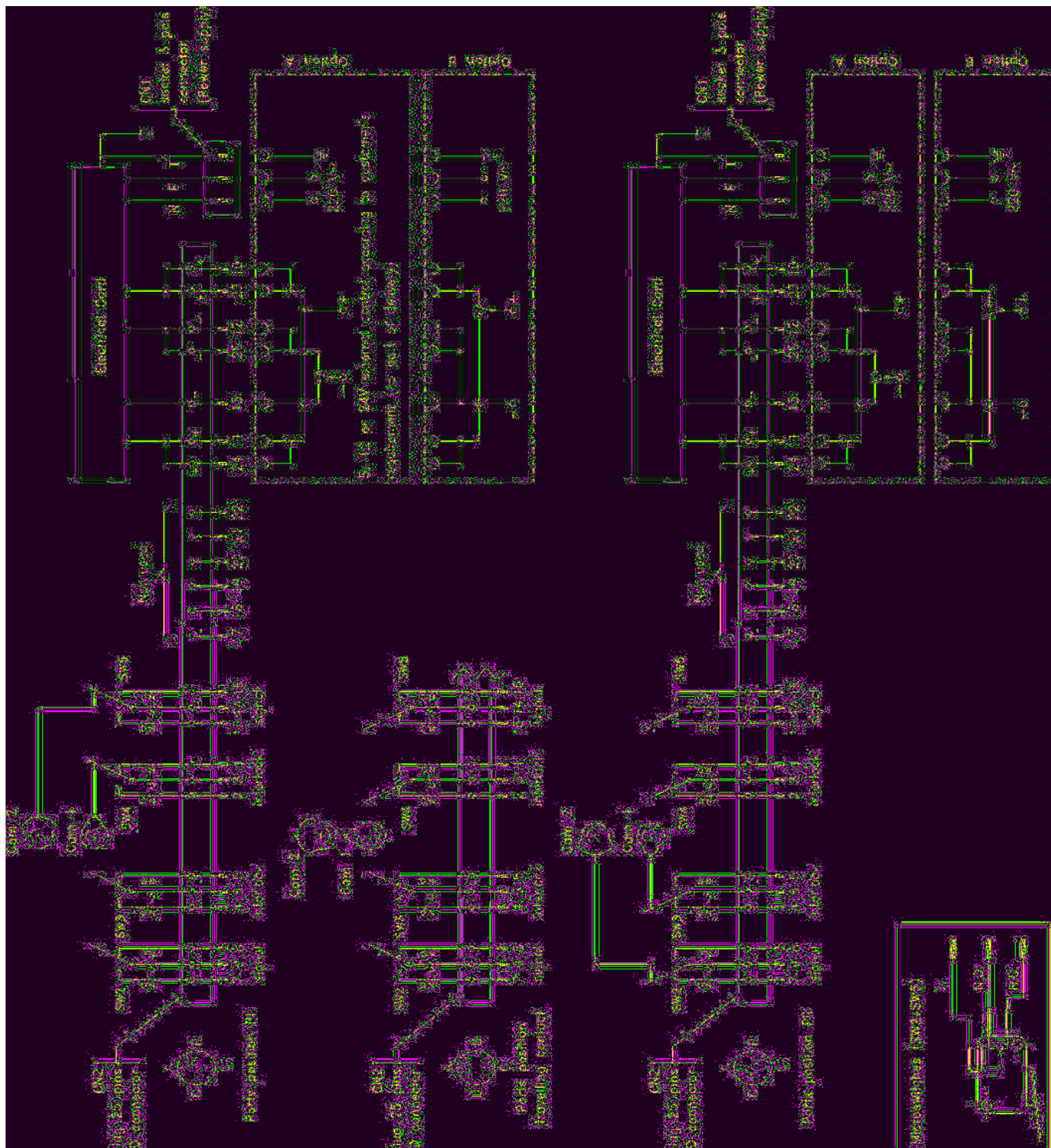


ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vac)	230 or 110 / 50 or 60 Hz
Control Voltage (Vdc)	5V, 12V, 24V
Switch-over time (s)	< 2
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	EIA 3 1/8"
Environmental temp (C°)	-10 ÷ 50
Weight (Kg)	14

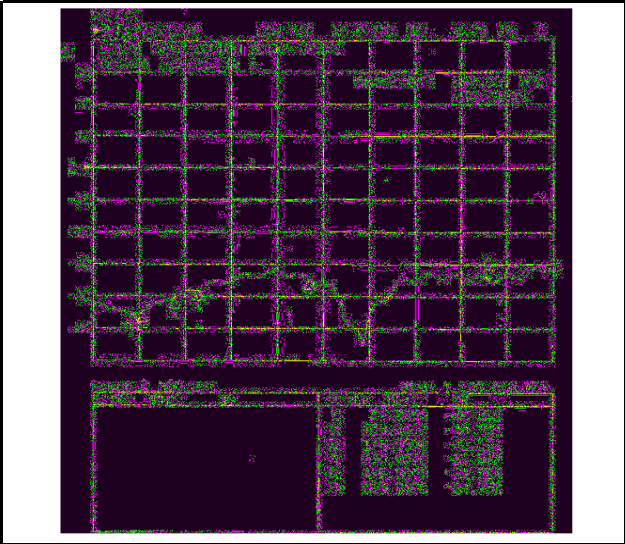
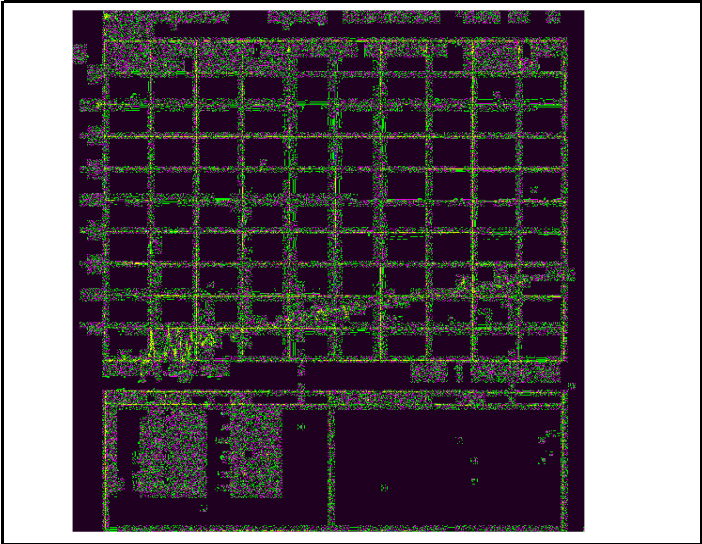
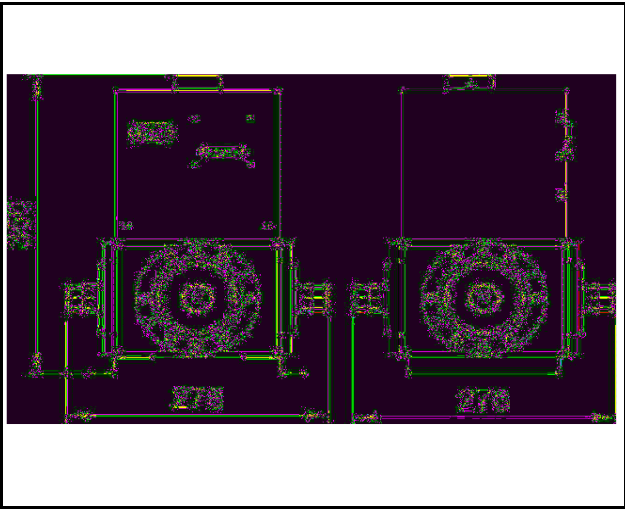
FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 40	> 35	> 30
Insulation (dB)	> 75	> 70	> 55
Max Power (W)	40000	30000	18000

TITLE: EIA 3 1/8" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1405

TITLE: EIA 3 1/8" MOTORIZED COAXIAL SWITCH



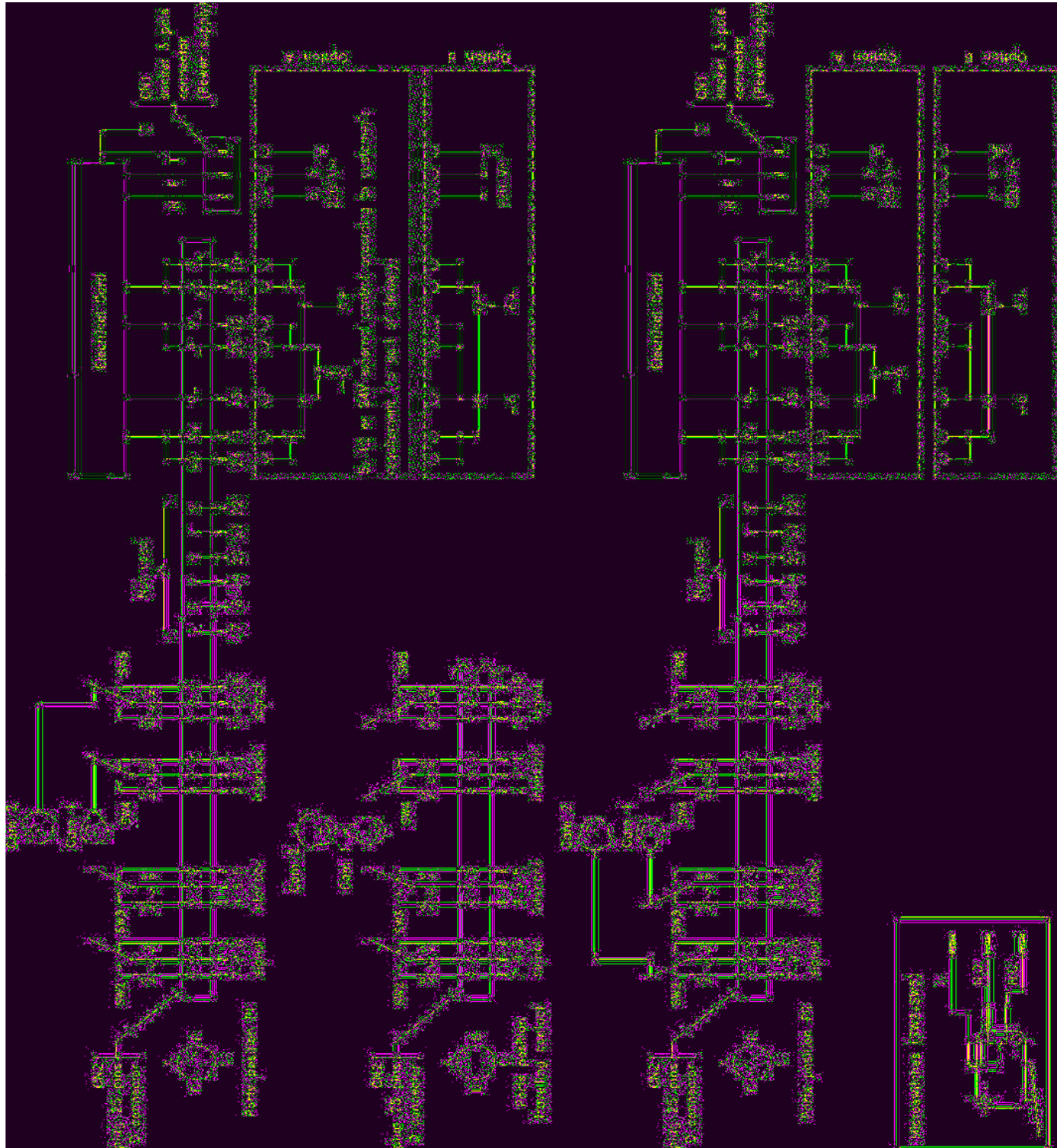
ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vac)	230 or 110 / 50 or 60 Hz
Control Voltage (Vdc)	5V, 12V, 24V
Switch-over time (s)	< 2
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	EIA 3 1/8"
Environmental temp (C°)	-10 ÷ 50
Weight (Kg)	14

FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 40	> 35	> 30
Insulation (dB)	> 75	> 70	> 55
Max Power (W)	40000	30000	18000

PART NUMBER: 1405

TITLE: EIA 3 1/8" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



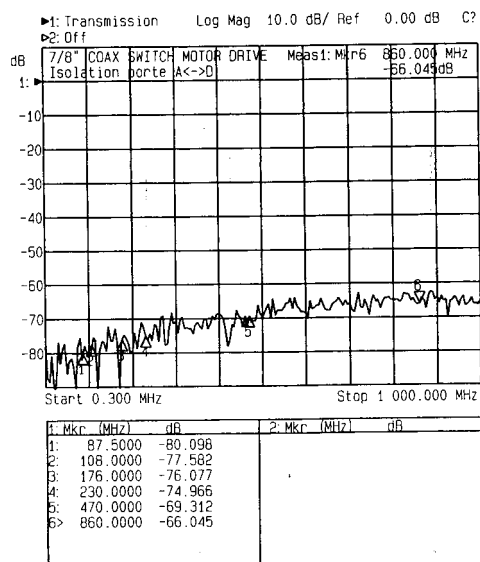
Technical data sheet

Part Number **1484-MN**

DC ÷ 862 MHz

Manual Coaxial Switch 7/8"

Commutating line

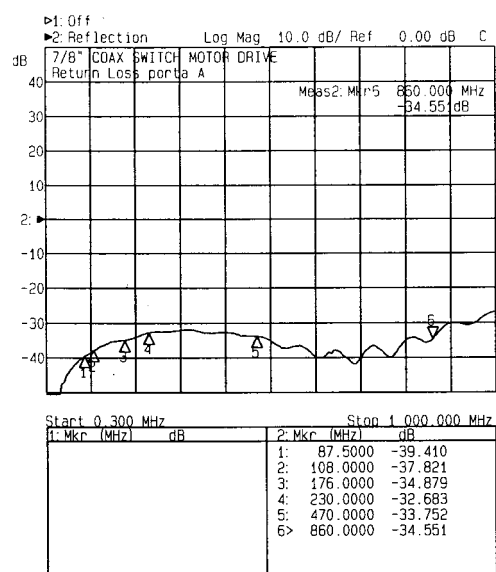


Mechanical Characteristics

Connections	EIA 7/8"
Overall dimensions [WxDxH] [mm.]	167x167x125
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	2.1

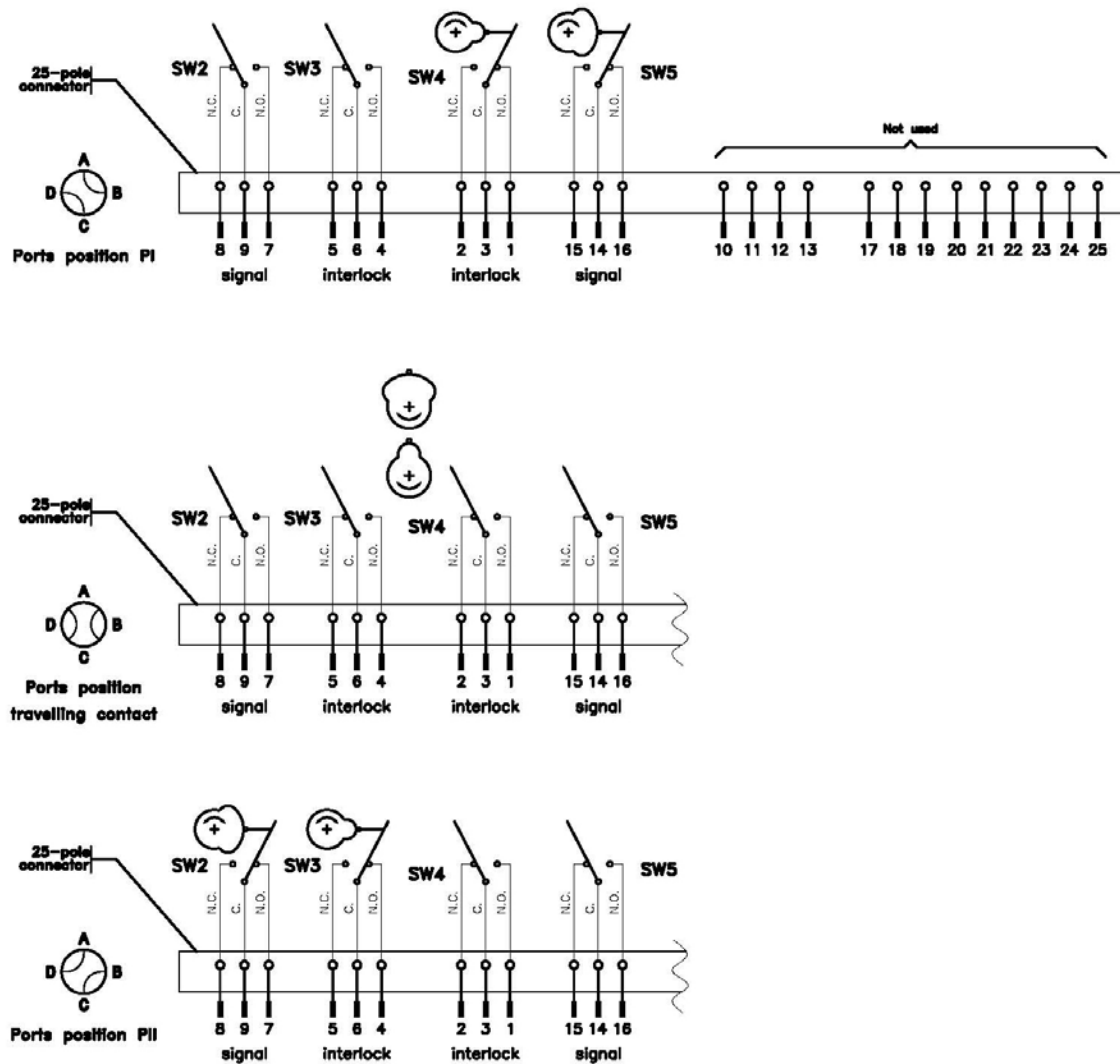
Electrical Characteristics

Frequency Range [MHz]	DC to 862 MHz
Insertion Loss [dB]	< 0.05
Input/Output Impedance [Ohm]	50
Operating Voltage [Vac]	N.A.
Control Voltage [Vdc]	N.A.
Switch-over Time [s]	N.A.



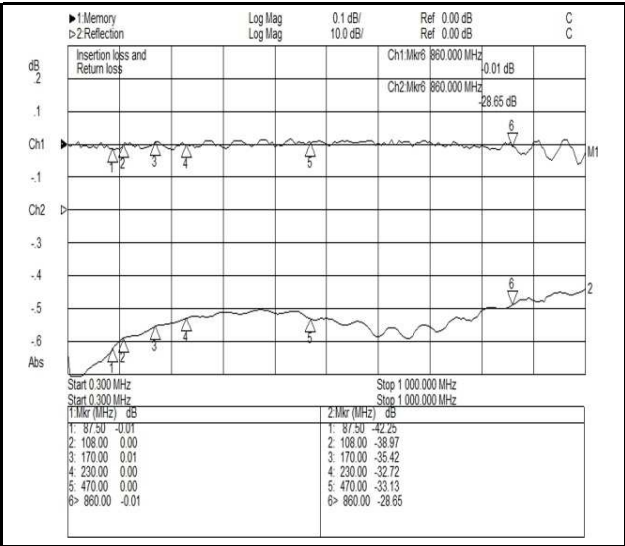
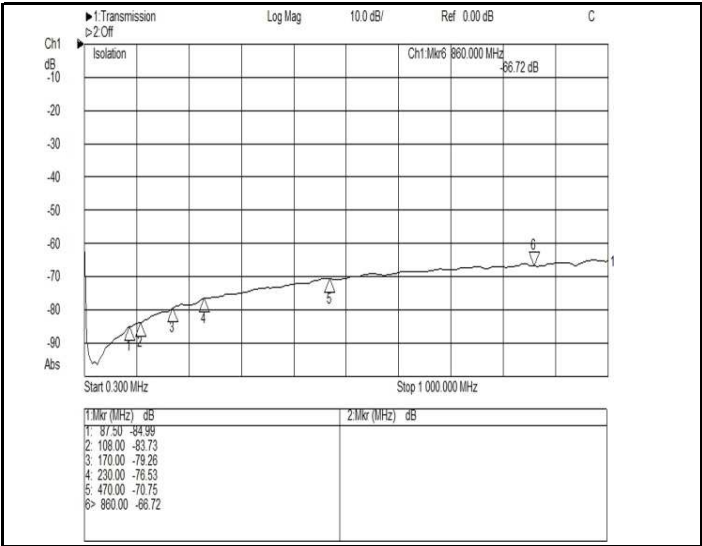
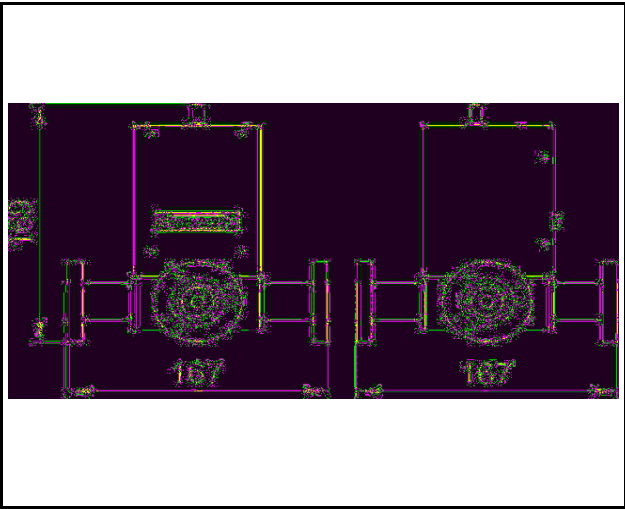
Frequency band	FM Radio	III	IV/V
Return loss [dB]	> 37	> 30	> 26
Insulation [dB]	> 77	> 75	> 65

Manual Coax Switch 7/8" Functional Diagram



PART NUMBER: 1484-C

TITLE: EIA 7/8" MOTORIZED COAXIAL SWITCH (24VDC CONTROL)



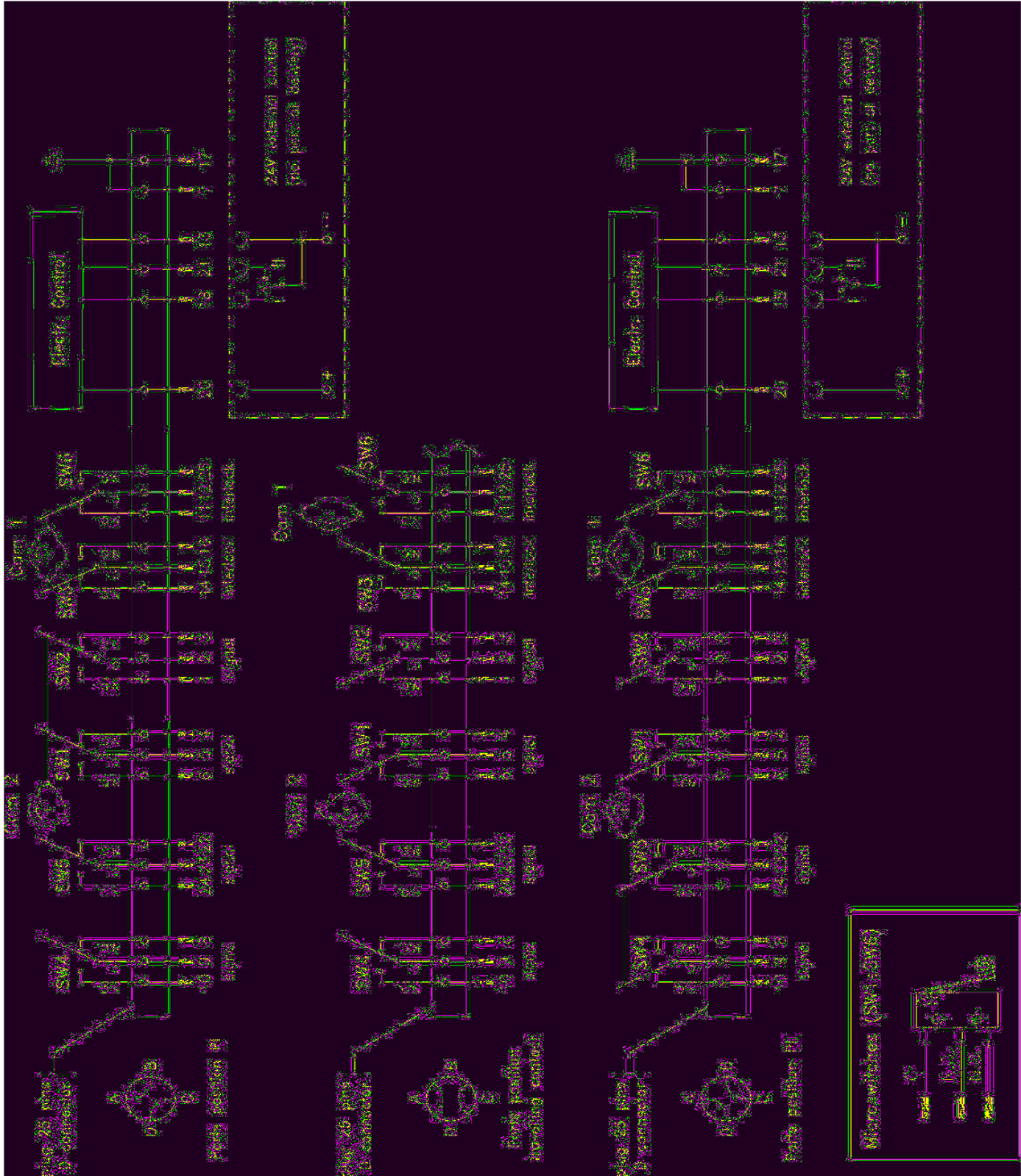
ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vdc)	24V
Control Voltage (Vdc)	24V
Switch-over time (s)	< 1
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	EIA 7/8"
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	1.7

FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 35	> 30	> 26
Insulation (dB)	> 70	> 65	> 55
Max Power (W)	5000	3500	2000

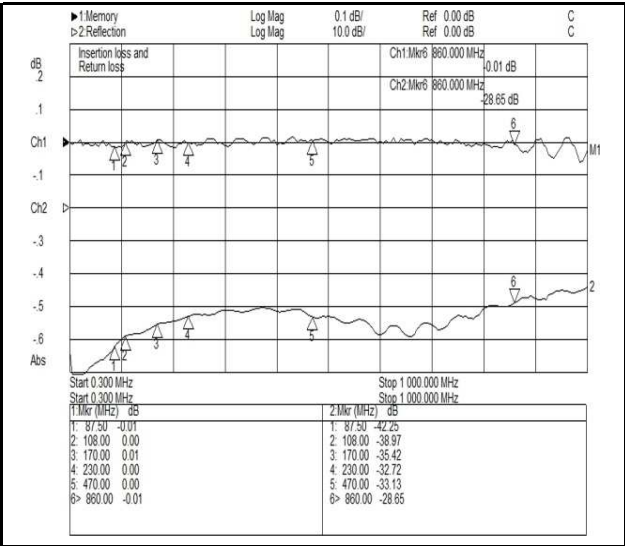
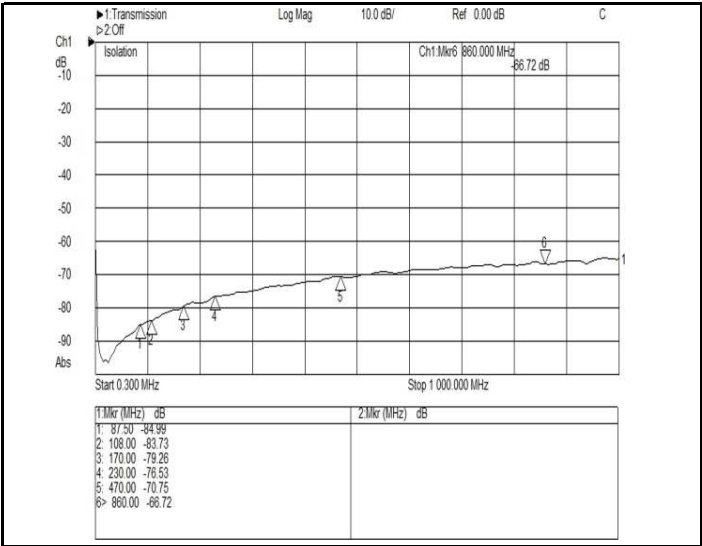
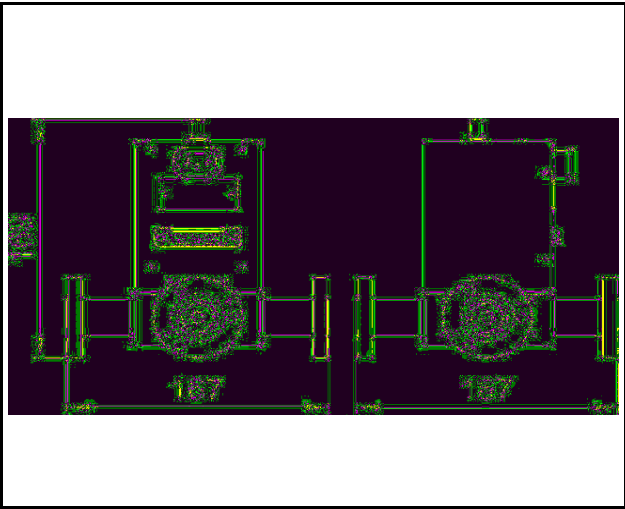
PART NUMBER: 1484-C

TITLE: EIA 7/8" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1484

TITLE: EIA 7/8" MOTORIZED COAXIAL SWITCH



ELECTRICAL CHARACTERISTICS

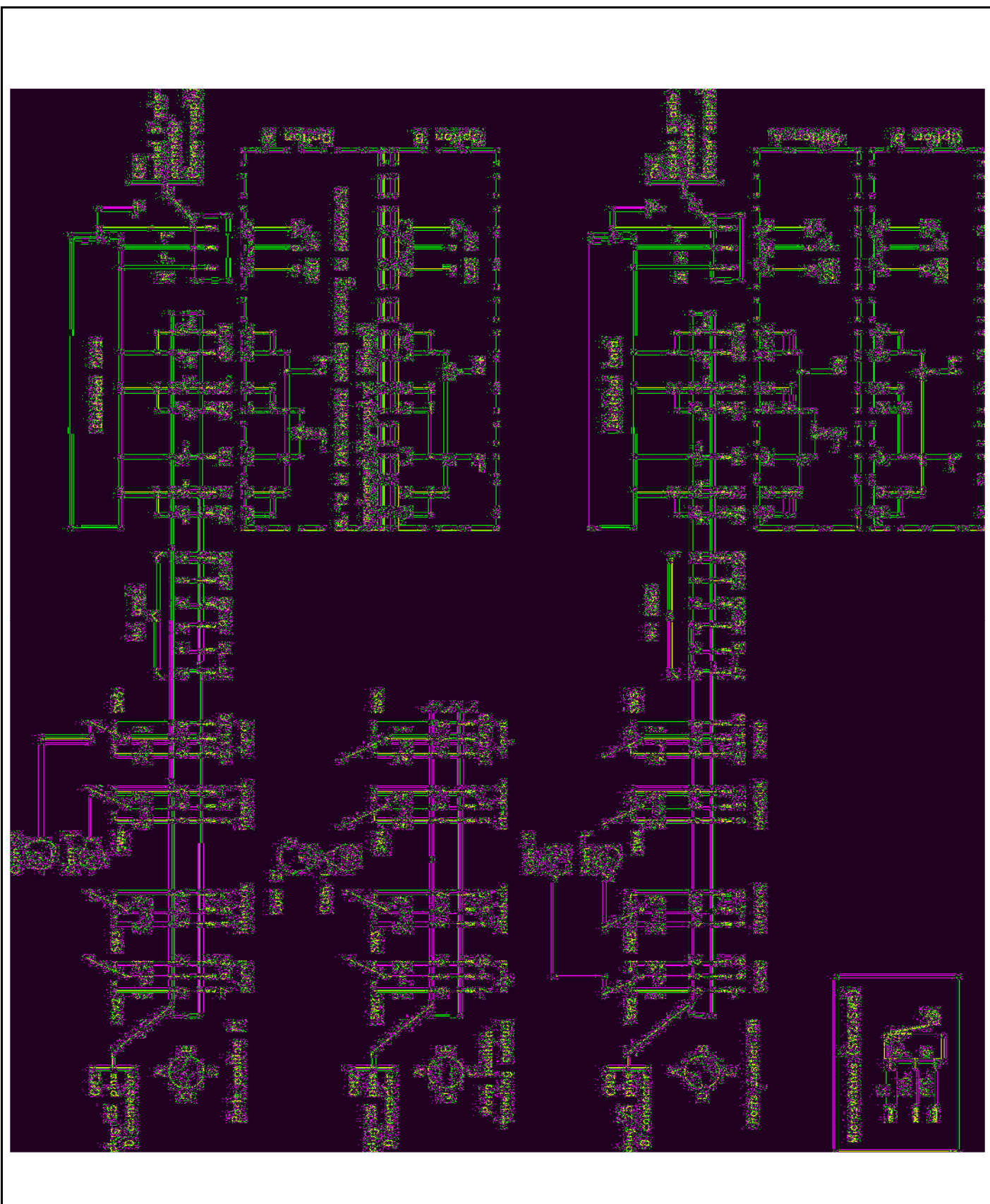
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vac)	85÷264 / 47÷63Hz
Control Voltage (Vdc)	5V, 12V, 24V
Switch-over time (s)	< 1
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS

Connectors	EIA 7/8"
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	1.7

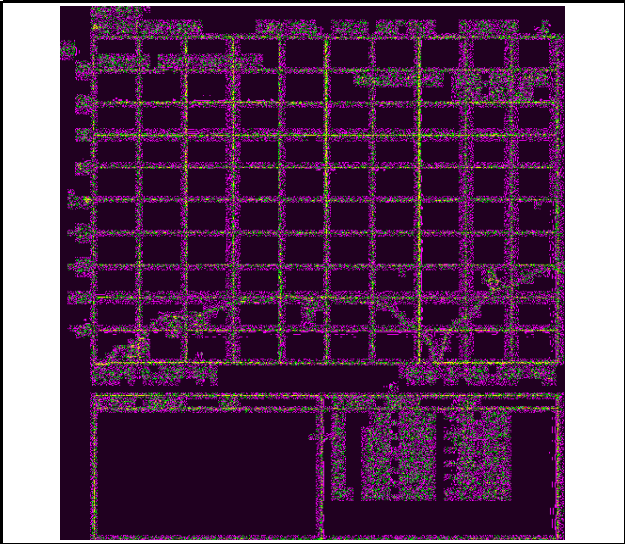
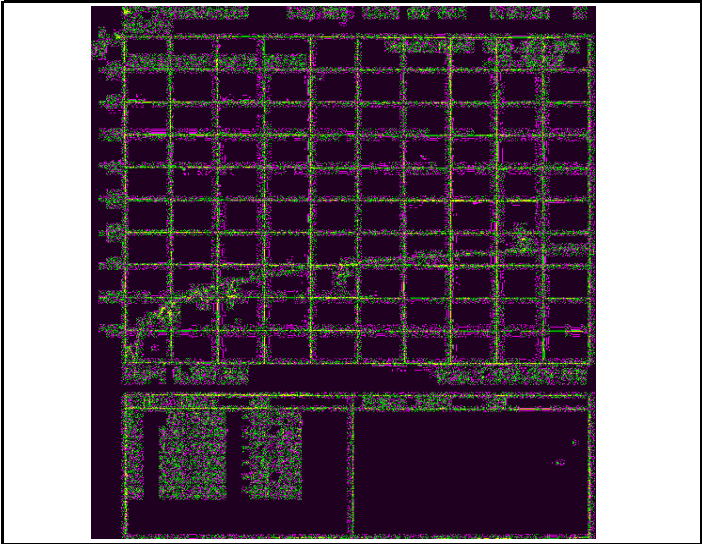
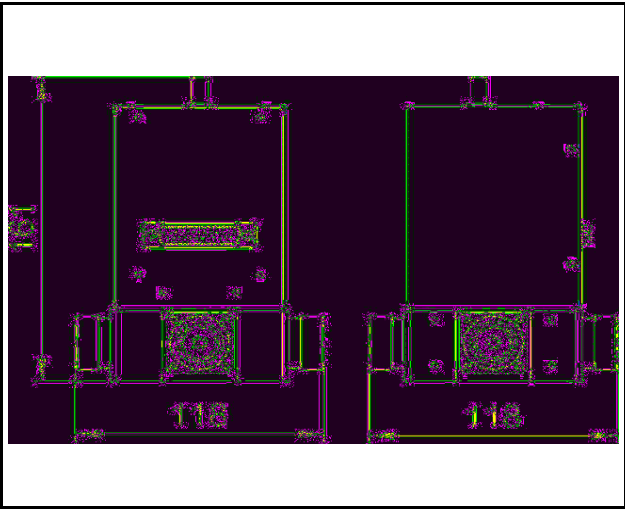
FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 35	> 30	> 26
Insulation (dB)	> 70	> 65	> 55
Max Power (W)	5000	3500	2000

TITLE: EIA 7/8" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1467-C

TITLE: DIN 7/16 MOTORIZED COAXIAL SWITCH (24VDC CONTROL)



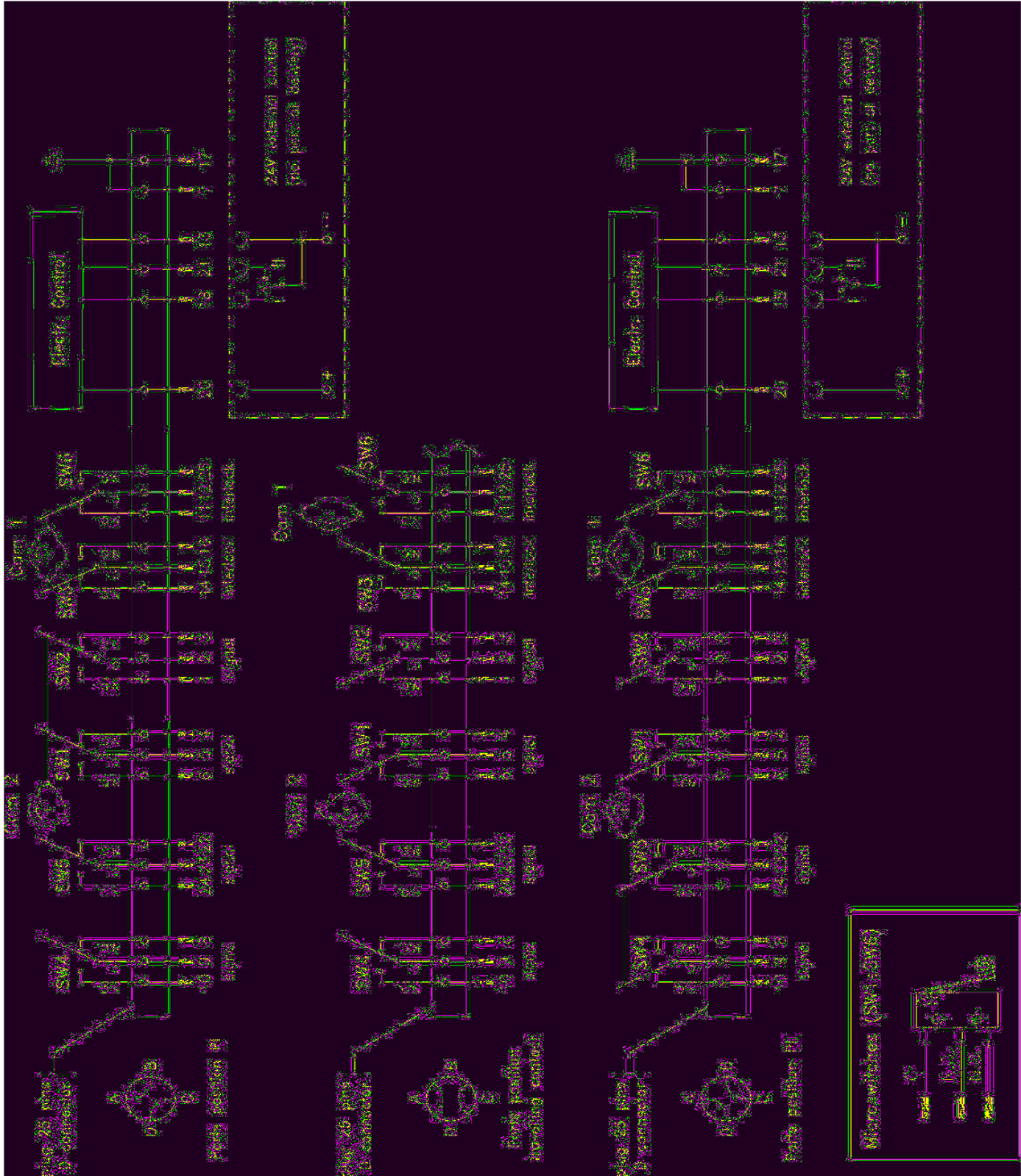
ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vdc)	24V
Control Voltage (Vdc)	24V
Switch-over time (s)	< 1
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	DIN 7/16
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	1.7

FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 35	> 30	> 26
Insulation (dB)	> 70	> 65	> 55
Max Power (W)	2000	1200	1000

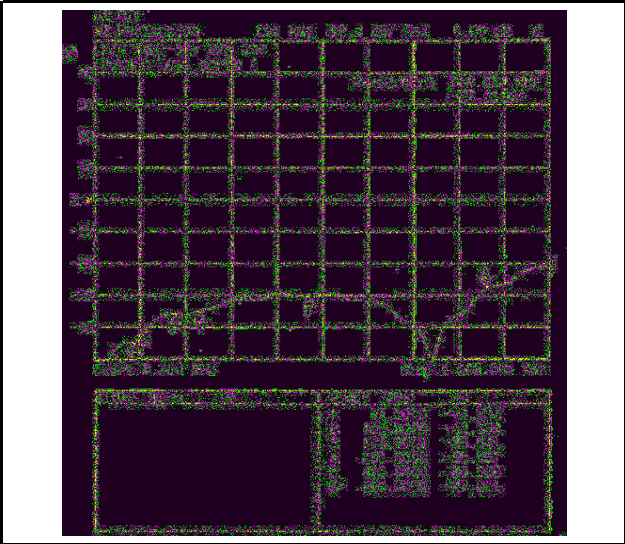
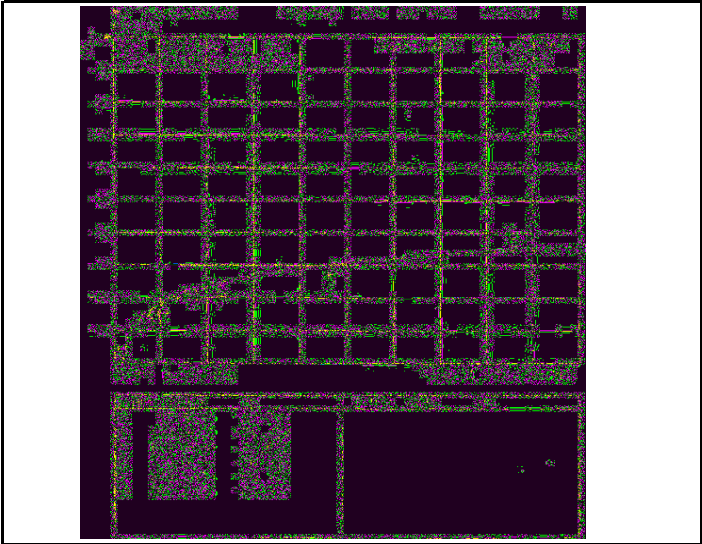
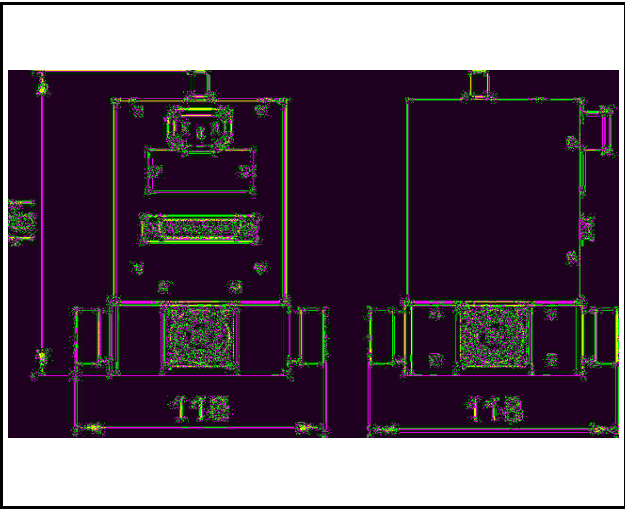
PART NUMBER: 1467-C

TITLE: DIN 7/16 MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1467

TITLE: DIN 7/16 MOTORIZED COAXIAL SWITCH

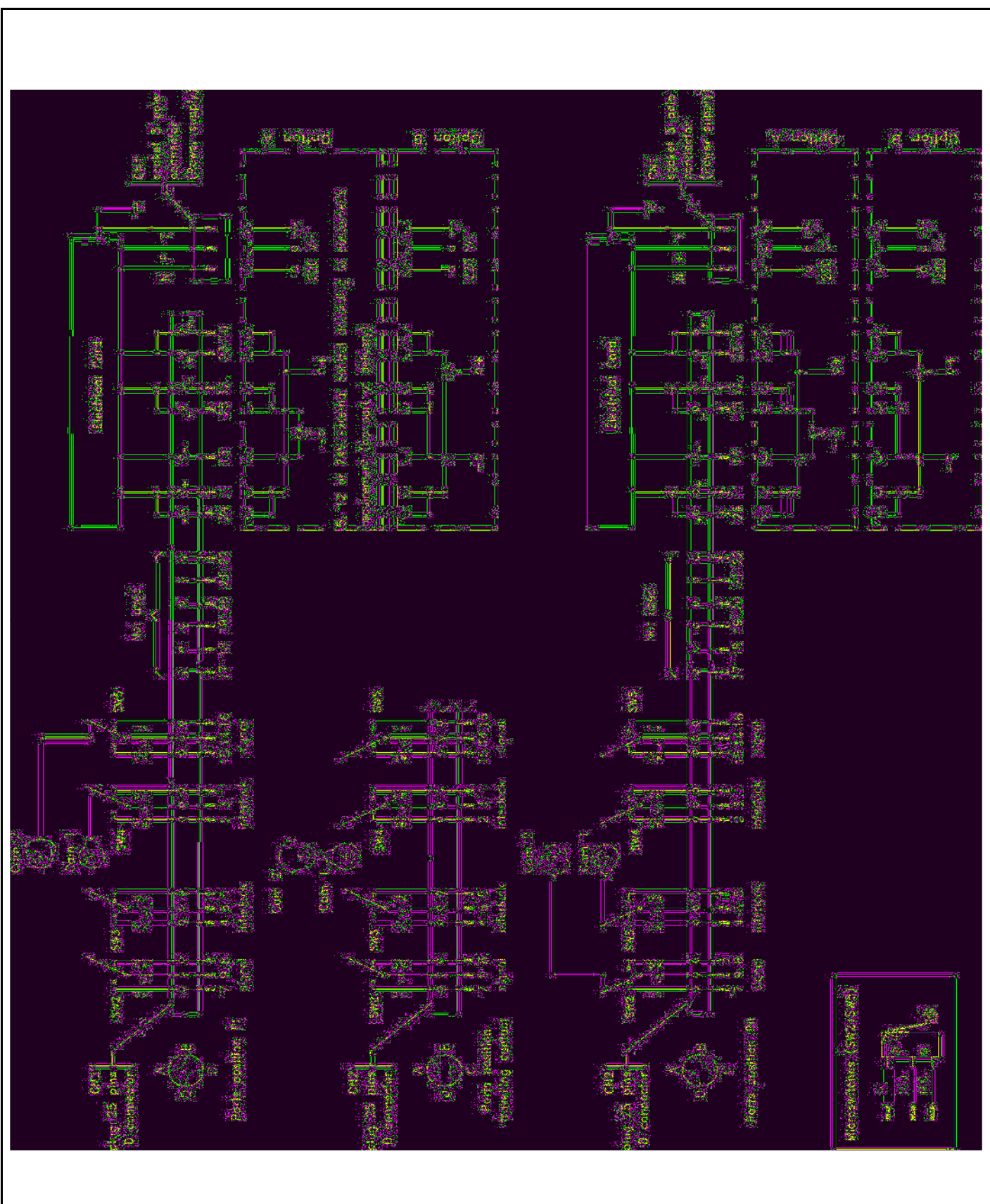


ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vac)	85÷264 / 47÷63Hz
Control Voltage (Vdc)	5V, 12V, 24V
Switch-over time (s)	< 1
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	DIN 7/16
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	1.7

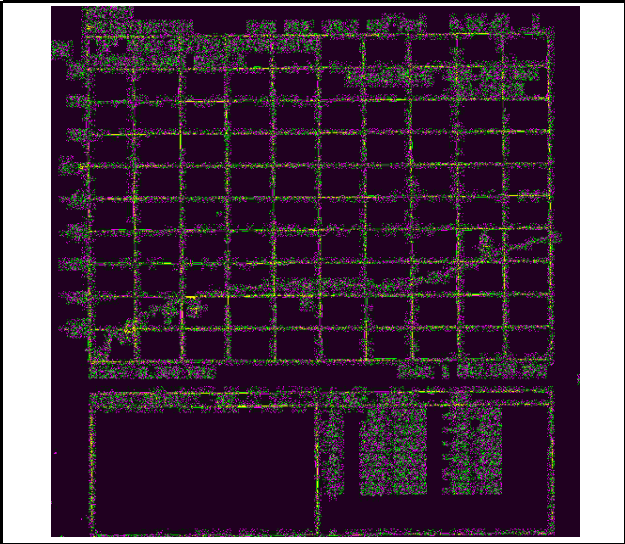
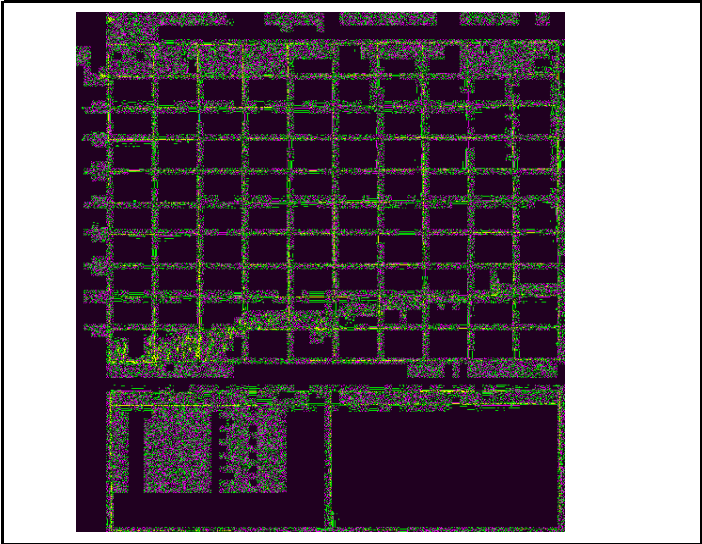
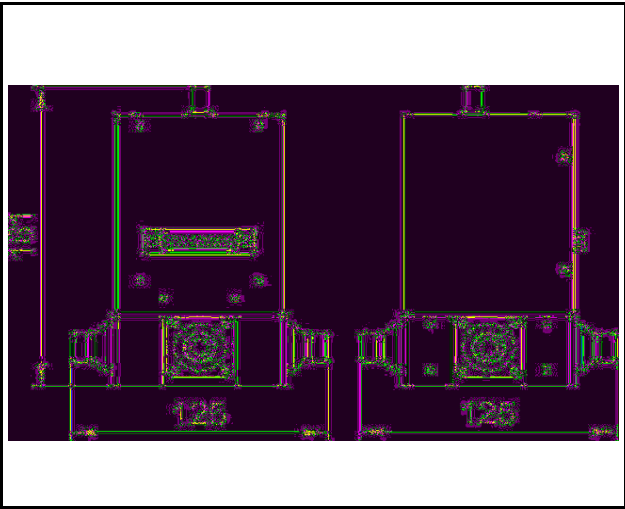
FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 35	> 30	> 26
Insulation (dB)	> 70	> 65	> 55
Max Power (W)	2000	1200	1000

TITLE: DIN 7/16 MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1606-C2

TITLE: "N" MOTORIZED COAXIAL SWITCH (24VDC CONTROL)



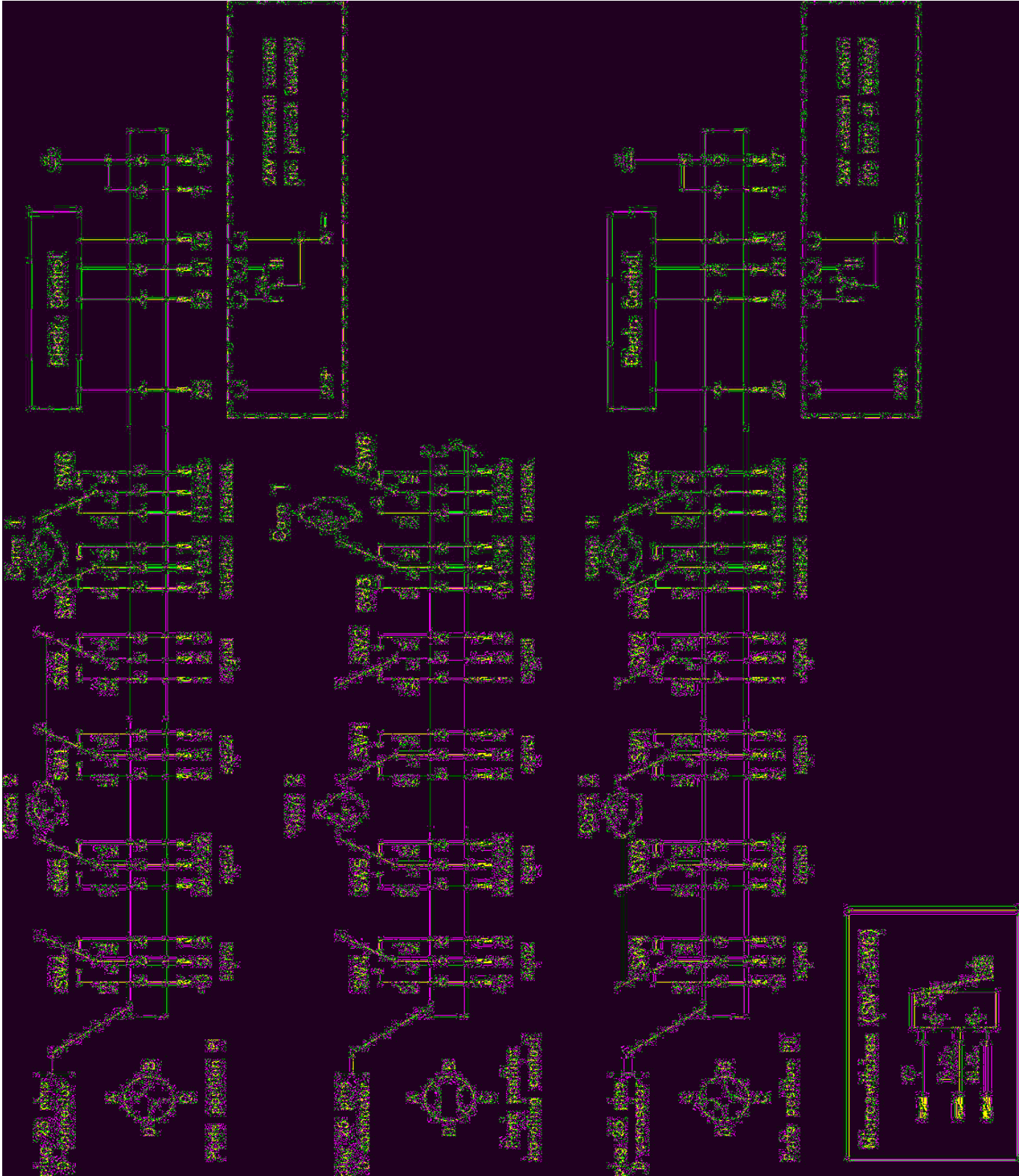
ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vdc)	24V
Control Voltage (Vdc)	24V
Switch-over time (s)	< 1
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	N
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	1.7

FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 35	> 30	> 26
Insulation (dB)	> 70	> 65	> 55
Max Power (W)	750	500	250

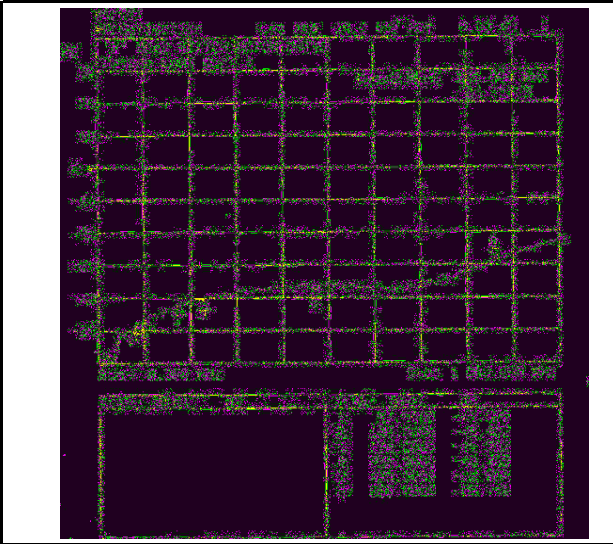
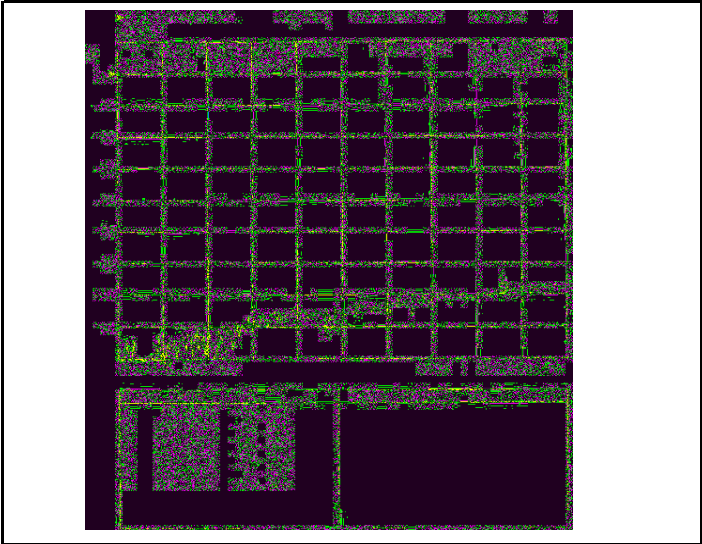
PART NUMBER: 1606-C2

TITLE: "N" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1606-C

TITLE: "N" MOTORIZED COAXIAL SWITCH

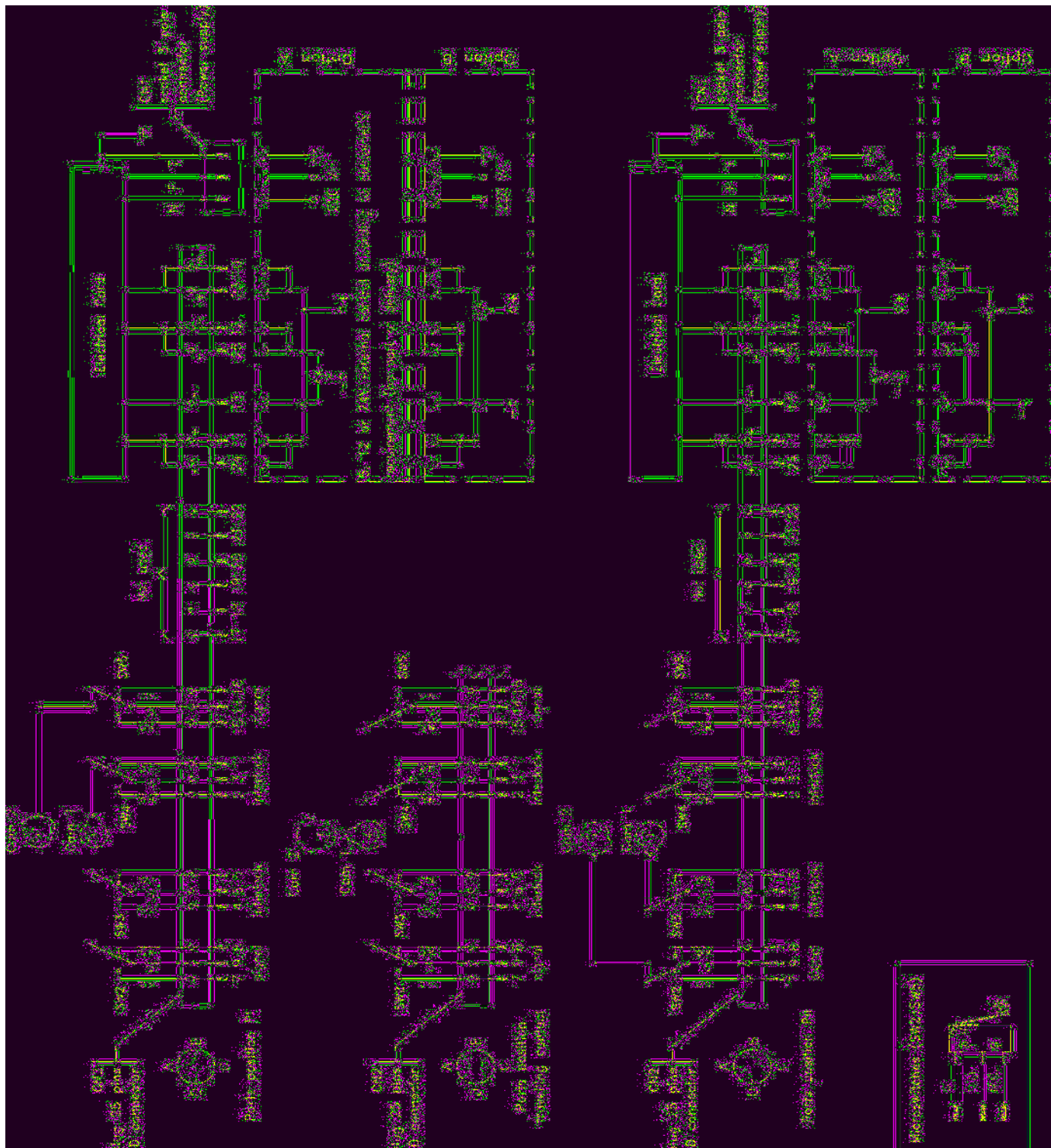


ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 862
Insertion Loss (dB)	< 0.05
Operating Voltage (Vac)	85÷264 / 47÷63Hz
Control Voltage (Vdc)	5V, 12V, 24V
Switch-over time (s)	< 1
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	N
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	1.7

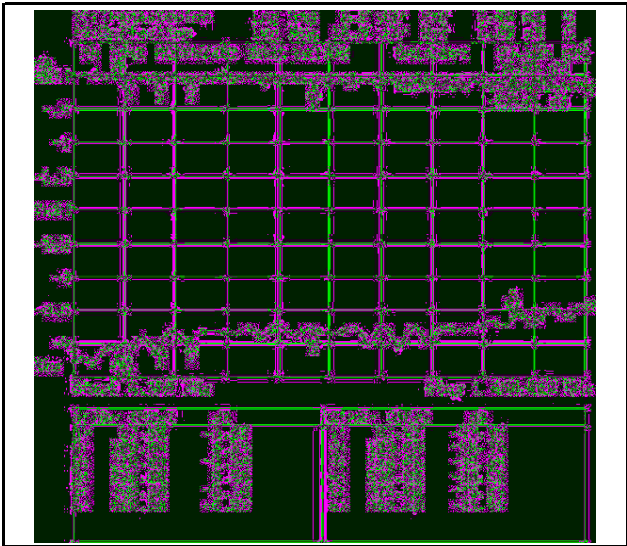
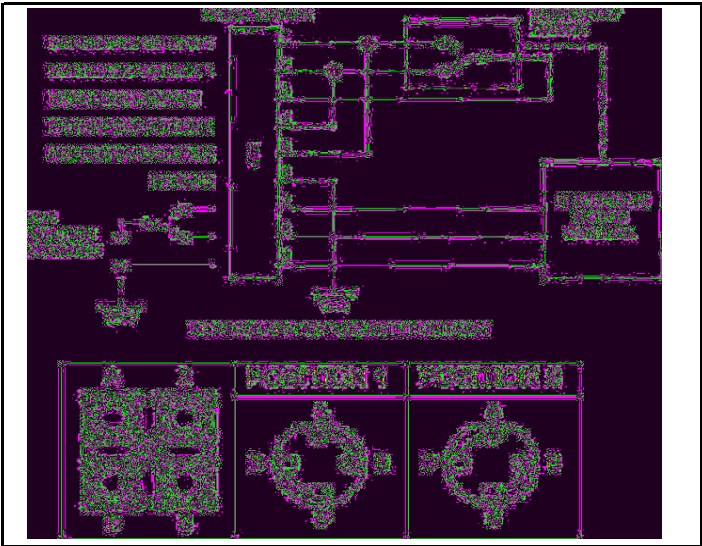
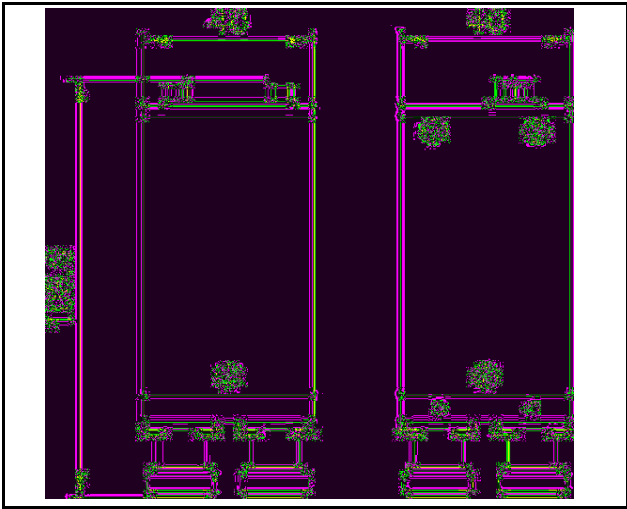
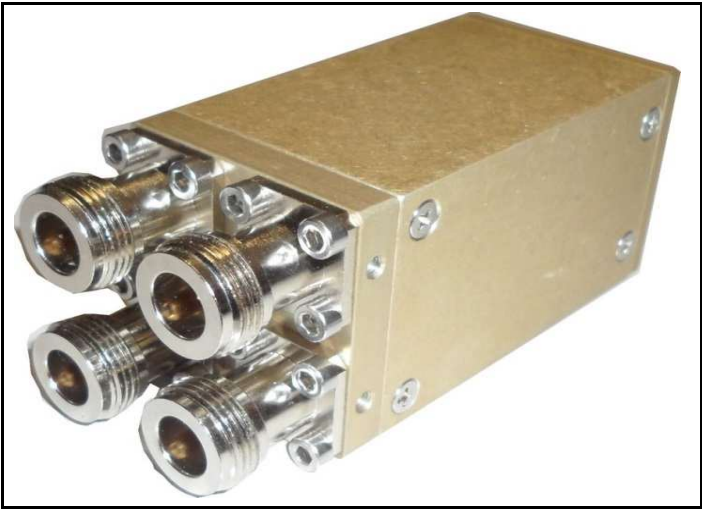
FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 35	> 30	> 26
Insulation (dB)	> 70	> 65	> 55
Max Power (W)	750	500	250

TITLE: "N" MOTORIZED COAXIAL SWITCH (FUNCTIONAL DIAGRAM)



PART NUMBER: 1748-C

TITLE: "N" MOTORIZED COAX SWITCH



ELECTRICAL CHARACTERISTICS	
Frequency range (MHz)	DC ÷ 1000
Insertion Loss (dB)	< 0.15
Operating Voltage (Vdc)	5 ÷ 24V
Control Voltage (Vdc)	5 ÷ 24V
Switch-over time (s)	< 1
Input/Output Impedance (Ohm)	50

MECHANICAL CHARACTERISTICS	
Connectors	N
Temperature range (C°)	-10 ÷ 50
Weight (Kg)	0.2

FREQUENCY BAND	FM RADIO	BIII	BIV-V
Return loss (dB)	> 40	> 30	> 26
Insulation (dB)	> 50	> 45	> 40
Max Power (W)	750	500	250