SFX-ADF

7-16 DIN Female for 1/2 in SFX-500 cable

OBSOLETE

This product was discontinued on: February 12, 2015

Product Classification

Product Type	Wireless and radiating connector

General Specifications

Body Style	Straight
Cable Family	SFX-500
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Outer Contact Attachment Method	Radial compression
Outer Contact Plating	Silver
Pressurizable	No

Dimensions

Width	28.96 mm | 1.14 in
Length	51.05 mm | 2.01 in
Diameter	28.96 mm | 1.14 in
Nominal Size	1/2 in

Electrical Specifications

3rd Order IMD at Frequency	-115 dBm @ 1800 MHz
3rd Order IMD Test Method	Two +43 dBm carriers

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Return Loss Note	Measurements taken using a .9 m (3 ft) jumper assembly
Average Power at Frequency	870.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	1.5 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.4 mOhm
Peak Power, maximum	15.6 kW
RF Operating Voltage, maximum (vrms)	707 V
Shielding Effectiveness	110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0.05–1.0 GHz	1.052	31.92
1.0–2.0 GHz	1.08	28.3
2.0–2.5 GHz	1.1	26.45
2.5–5.0 GHz	1.29	18
5.0–6.0 GHz	1.38	16

Mechanical Specifications

Connector Retention Tensile Force	707.27 N | 159 lbf
Connector Retention Torque	2.03 N-m | 18.002 in lb
Insertion Force	199.99 N | 44.96 lbf
Insertion Force Method	IEC 61169-4:15.2.4
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +100 °C (-85 °F to +212 °F)

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Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F
Average Power, Inner Conductor Temperature	100 °C | 212 °F
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net	72 g | 0.159 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours