

TA-DMDF



7-16 DIN Male to 7-16 DIN Female Low-PIM Adapter

Product Classification

Product Type Adapter

General Specifications

Body Style Straight
Inner Contact Plating Silver
Interface 7-16 DIN Male
Interface 2 7-16 DIN Female
Outer Contact Plating Trimetal
Pressurizable No

Dimensions

Length 38.85 mm | 1.53 in
Diameter 34.6 mm | 1.362 in

Electrical Specifications

3rd Order IMD at Frequency -163 dBc @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers
Average Power at Frequency 1,300.0 W @ 900 MHz
Connector Impedance 50 ohm
dc Test Voltage 4000 V
Inner Contact Resistance, maximum 0.4 mOhm
Insulation Resistance, minimum 10000 MOhm
Operating Frequency Band 0 – 6000 MHz
Outer Contact Resistance, maximum 1.5 mOhm
Peak Power, maximum 28.8 kW
RF Operating Voltage, maximum (vrms) 1200 V

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VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.041	33.94
3000–6000 MHz	1.135	23.98

Mechanical Specifications

Coupling Nut Proof Torque	50 N-m 442.537 in lb
Coupling Nut Proof Torque Method	IEC 61169-4:9.3.6
Coupling Nut Retention Force	800 N 179.847 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11
Insertion Force	200 N 44.962 lbf
Insertion Force Method	IEC 61169-4:15.2.4
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:9.5
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 +125 °C (-85 °F to +257 °F)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Inner Conductor Temperature	100 °C 212 °F
Climatic Sequence Test Method	IEC 60068-1
Corrosion Test Method	IEC 60068-2-11
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net	124.48 g 0.274 lb
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Regulatory Compliance/Certifications

Agency	Classification
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TA-DMDF

CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

