L5TDF-RPC

7-16 DIN Female OnePiece™ for 7/8 in LDF5-50A cable

OBSOLETE	
This product was discontine	ued on: December 31, 2010
Replaced By:	
L5TDF-PS	7-16 DIN Female Positive Stop™ for 7/8 in LDF5-50A cable
Product Classificatio	Π
Product Type	Wireless and radiating connector
Product Brand	HELIAX® OnePiece™
General Specification	NS
Body Style	Straight
Cable Family	LDF5-50A
Inner Contact Attachment Met	hod Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Mounting Angle	Straight
Outer Contact Attachment Met	thod Ball clamp
Outer Contact Plating	Trimetal
Pressurizable	No
Dimensions	
Length	58.93 mm 2.32 in
Diameter	37.34 mm 1.47 in

Outline Drawing

Nominal Size

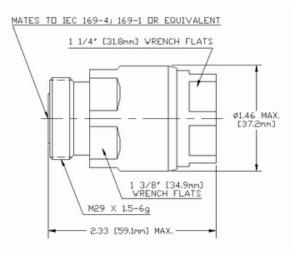
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7/8 in

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L5TDF-RPC



Electrical Specifications

-120 dBm @ 910 MHz
Two +43 dBm carriers
0.05
2.3 kW @ 900 MHz
50 ohm
50 ohm
4000 V
0.8 m0hm
5000 MOhm
0 – 5000 MHz
1.5 m0hm
40 kW
1415 V
-130 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-1000 MHz	1.023	38.89
1010-2200 MHz	1.029	36.9
2210-3000 MHz	1.036	35.05
3010-5000 MHz	1.065	30.04

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Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	8.14 N-m 72.001 in lb
Insertion Force	200.17 N 45 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:9.5
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m
Immersion Test Mating	Unmated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Unmated
Water Jetting Test Method	IEC 60529:2001, IP66
Packaging and Weights	

Weight, net

177 g | 0.39 lb

* Footnotes

Insertion Loss Coefficient, typical	$0.05 \ensuremath{\sqrt{-}}\xspace$ freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours

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