L1TNM-PL-G



Type N Male Positive Lock for 1/4 in LDF1-50 cable

Product Classification

Product Type	Wireless and radiating connector	
Product Brand	HELIAX®	
Product Series	LDF1-50	
General Specifications		
Body Style	Straight	
Cable Family	LDF1-50	
Inner Contact Attachment Method	Captivated	
Inner Contact Plating	Gold	
Interface	N Male	
Mounting Angle	Straight	
Outer Contact Attachment Method	Self-flare	
Outer Contact Plating	Trimetal	
Pressurizable	No	
Dimensions		
Height	22.35 mm 0.88 in	
Width	22.35 mm 0.88 in	
Length	48.77 mm 1.92 in	
Diameter	22.35 mm 0.88 in	
Nominal Size	1/4 in	
Electrical Specifications		

Electrical Specifications

3rd Order IMD at Frequency

-107 dBm @ 910 MHz

Page 1 of 3



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L1TNM-PL-G

3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.6 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2200 V
Inner Contact Resistance, maximum	1 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 12000 MHz
Outer Contact Resistance, maximum	0.25 m0hm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–960 MHz	1.024	38.52
960–2200 MHz	1.035	35.29
2200–2700 MHz	1.035	35.29
2700–4000 MHz	1.094	26.96
4000–6000 MHz	1.21	20.5
6000-8000 MHz	1.33	17
8000-10000 MHz	1.33	17
10000–12000 MHz	1.4	15.7

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	449.27 N 101 lbf
Coupling Nut Proof Torque	1.7 N-m 15.046 in lb
Coupling Nut Retention Force	449.98 N 101.16 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
Insertion Force	27.98 N 6.29 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Interface Durability	500 cycles

Page 2 of 3



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LITNM-PL-G

Interface Durability Method	IEC 61169-16:9.5
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
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Mating Immersion Test Method	Mated IEC 60529:2001, IP68
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Immersion Test Method	IEC 60529:2001, IP68
Immersion Test Method Moisture Resistance Test Method	IEC 60529:2001, IP68 IEC 60068-2-3

Packaging and Weights

Weight, net

61.77 g | 0.136 lb

Regulatory Compliance/Certifications

Agency	Classification
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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



* Footnotes

Insertion Loss Coefficient, typical 0.05√[−]freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth

Immersion at specified depth for 24 hours



Page 3 of 3

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