LITSM-PL



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

Wireless and radiating connector

HELIAX®

LDF1-50

Straight LDF1-50

Captivated

SMA Male

Straight

Self-flare

Trimetal

No

Gold

Product Type Product Brand Product Series General Specifications Body Style Cable Family Inner Contact Attachment Method Inner Contact Plating Interface Mounting Angle Outer Contact Attachment Method Outer Contact Plating Pressurizable

Dimensions

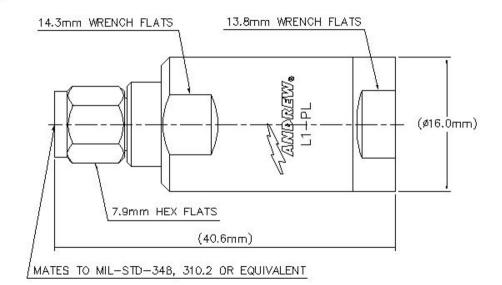
Height	16 mm 0.63 in
Width	16 mm 0.63 in
Length	40.64 mm 1.6 in
Diameter	16 mm 0.63 in
Nominal Size	1/4 in

Outline Drawing

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Electrical Specifications

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	1000 V
Inner Contact Resistance, maximum	3 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 13500 MHz
Outer Contact Resistance, maximum	2.5 m0hm
Peak Power, maximum	5 kW
RF Operating Voltage, maximum (vrms)	500 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–960 MHz	1.02	40.09
960–2200 MHz	1.029	36.9
2200–2700 MHz	1.029	36.9

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2700–4000 MHz	1.046	32.96
4000-6000 MHz	1.111	25.58
6000-8000 MHz	1.152	23.02
8000-10000 MHz	1.22	20.4
10000-12000 MHz	1.28	18.4
12000-13500 MHz	1.41	15.4

Mechanical Specifications

25 cycles
449.27 N 101 lbf
1.7 N-m 15.046 in lb
266.98 N 60.02 lbf
MIL-C-39012C-3.25, 4.6.22
22.02 N 4.95 lbf
IEC 61169-1:15.2.4
500 cycles
IEC 61169-15:9.5
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 Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

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Packaging and Weights

Weight, net

34.16 g | 0.075 lb

Designed, manufactured and/or distributed under this quality management system

Regulatory Compliance/Certifications

Classification

Compliant/Exempted

Agency

CHINA-ROHS

ISO 9001:2015

ROHS

Compliant/Exempted



UK-ROHS

* Footnotes

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

Above maximum concentration value

Immersion Depth

Immersion at specified depth for 24 hours

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