



SMA Male for 3/8 in LDF2-50 cable

OBSOLETE

This product was discontinued on: **March 21, 2013**

Replaced By:

L2TSM-PL

SMA Male Positive Lock for 3/8 in LDF2-50 cable

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

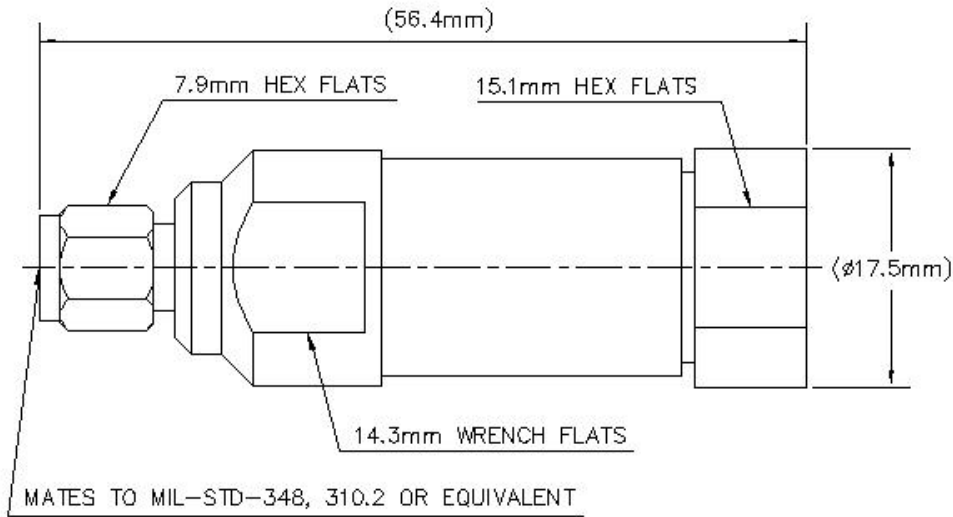
General Specifications

Body Style	Straight
Cable Family	LDF2-50
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	SMA Male
Mounting Angle	Straight
Outer Contact Attachment Method	Self-flare
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Length	6.35 mm 0.25 in
Diameter	17.53 mm 0.69 in
Nominal Size	3/8 in

Outline Drawing



Electrical Specifications

Average Power at Frequency	0.7 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1000 V
Inner Contact Resistance, maximum	3 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	2.5 mOhm
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)
824–2700 MHz	1.036	35.05
3000–6000 MHz	1.119	25.01

Mechanical Specifications

Connector Retention Tensile Force	671.68 N 151 lbf
------------------------------------------	--------------------

L2TSM

Connector Retention Torque	2.7 N-m 23.897 in lb
Coupling Nut Proof Torque	1.7 N-m 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	266.98 N 60.02 lbf
Coupling Nut Retention Force Method	IEC 61169-15:9.3.11
Insertion Force	97.86 N 22 lbf
Insertion Force Method	IEC 61169-16:9.3.5
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 +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

Packaging and Weights

Weight, net	48.7 g 0.107 lb
--------------------	-------------------

* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
------------------------	-------------------------------------------