# SMA Male Positive Lock for l/4 in LDFl-50 cable 

## Product Classification

## Product Type

Wireless and radiating connector
Product Brand
HELIAX®

## 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

Width
Length
Diameter
Nominal Size
0.63 in | 16.002 mm
0.63 in | 16.002 mm
1.6 in | 40.64 mm
0.63 in | 16.002 mm
$1 / 4$ in

Outline Drawing

## LITSM-PL



## Electrical Specifications

## Insertion Loss, typical

## Attenuation, Ambient Temperature

Average Power at Frequency
Cable Impedance
Connector Impedance
dc Test Voltage
Inner Contact Resistance, maximum
Insulation Resistance, minimum
Operating Frequency Band
Outer Contact Resistance, maximum
Peak Power, maximum
0.05 dB
$20^{\circ} \mathrm{C} \mid 68^{\circ} \mathrm{F}$
0.6 kW @ 900 MHz

50 ohm
50 ohm
1000 V
3 mOhm
5000 MOhm
$0-13500 \mathrm{MHz}$
2.5 mOhm

5 kW

RF Operating Voltage，maximum（vrms）
Shielding Effectiveness
VSWR／Return Loss

| Frequency Band | VSWR | Retu |
| :---: | :---: | :---: |
| 0－960 MHz | 1.03 | 40 |
| 960－2200 MHz | 1.03 | 37 |
| 2200－2700 MHz | 1.03 | 37 |
| 2700－4000 MHz | 1.05 | 33 |
| 4000－6000 MHz | 1.12 | 25.6 |
| 6000－8000 MHz | 1.16 | 23 |
| 8000－10000 MHz | 1.22 | 20.4 |
| 10000－12000 MHz | 1.28 | 18.4 |
| 12000－13500 MHz | 1.41 | 15.4 |

## Mechanical Specifications

Attachment Durability
Connector Retention Tensile Force
Coupling Nut Proof Torque
Coupling Nut Retention Force
Coupling Nut Retention Force Method
Insertion Force
Insertion Force Method
Interface Durability
Interface Durability Method
Mechanical Shock Test Method

## Environmental Specifications

## Operating Temperature

## Storage Temperature

Average Power，Ambient Temperature
Average Power，Inner Conductor Temperature
Corrosion Test Method
Immersion Depth

500 V
$-110 d B$

Return Loss（dB）

25 cycles
101 lbf ｜449．27 N
15.05 in lb｜ $1.7 \mathrm{~N}-\mathrm{m}$
60.02 lbf ｜ 266.982 N

MIL－C－39012C－3．25，4．6．22
$4.95 \mathrm{lbf} \mid 22.019 \mathrm{~N}$
IEC 61169－1：15．2．4
500 cycles
IEC 61169－15：9．5
IEC 60068－2－27

```
-55 呂 to +85 钅 (-67 ' F to +185 ' F )
-65 呂 to +125 呂 (-85 'F to +257 ' F)
40 ' C | 104 %
100 % C | 212 % F
IEC 60068-2-11
1 \mathrm { m }
```


## LITSM-PL

## Immersion Test Mating

Immersion Test Method
Moisture Resistance Test Method
Thermal Shock Test Method
Vibration Test Method
Packaging and Weights

Mated
IEC 60529:2001, IP68
IEC 60068-2-3
IEC 60068-2-14
IEC 60068-2-6
$34.16 \mathrm{~g} \mathrm{\mid} 0.075 \mathrm{lb}$

## Regulatory Compliance/Certifications

Agency
CHINA-ROHS
ISO 9001:2015
REACH-SVHC
ROHS


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* Footnotes

Immersion Depth
Insertion Loss, typical $0.05 \sqrt{ }$ freq $(G H z)$ (not applicable for elliptical waveguide)

