

## 7-16 DIN Male for 1/2 in LDF4-50A cable

## Product Classification

## Product Type <br> Product Brand <br> Product Series <br> Ordering Note <br> Warranty <br> Ceneral Specifications

Wireless and radiating connector

| Body Style | Straight |
| :--- | :--- |
| Cable Family | LDF4-50A |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | $7-16$ DIN Male |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Clamp |
| Outer Contact Plating | Trimetal |
| DimeחSiOחS |  |
| Length | $61 \mathrm{~mm} \mathrm{\mid} 2.402$ in |
| Diameter | $35 \mathrm{~mm} \mathrm{\mid} 1.378$ in |
| Nominal Size | $1 / 2 \mathrm{in}$ |

Outline Drawing

## L4DM-F



## Electrical Specifications

3rd Order IMD at Frequency
3rd Order IMD Dynamic Test Method
3rd Order IMD Dynamic, typical
3rd Order IMD Test Method
Insertion Loss Coefficient, typical
Average Power at Frequency
Cable Impedance
Connector Impedance
dc Test Voltage
Impedance
Inner Contact Resistance, maximum
Insulation Resistance, minimum
Operating Frequency Band
Outer Contact Resistance, maximum
RF Operating Voltage, maximum (vrms)
-120 dBm @ 900 MHz
Tapping/Impact, no rotation
-97 dBm
Two +43 dBm carriers
0.05
1.1 kW @ 900 MHz

50 ohm
50 ohm
4000 V
50 ohm
0.4 mOhm

10000 mOhm
$0-7500 \mathrm{MHz}$
1.5 mOhm

1415 V

## L4DM-F

## VSWR/Return

LOSS

| Frequency Band | VSWR | Return Loss (dB) | Gated VSWR | Gated Return Loss (dB) | VSWR, typical | Return Loss, typical (dB) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0 - 1 0 0 0} \mathbf{~ M H z}$ | 1.05 | 32.26 | 1.02 | 40 |  |  |
| $\mathbf{1 0 0 0 - \mathbf { 2 0 0 0 } \mathbf { ~ M H z }}$ | 1.1 | 26.44 | 1.023 | 39 |  |  |
| $\mathbf{2 2 0 0 - 3 0 0 0} \mathbf{~ M H z}$ | 1.12 | 24.94 | 1.052 | 32 |  |  |
| $\mathbf{3 0 0 0 - 4 0 0 0} \mathbf{~ M H z}$ | 1.15 | 23.13 | 1.065 | 30 |  |  |
| $\mathbf{4 0 0 0 - 6 0 0 0} \mathbf{~ M H z}$ | 1.2 | 20.83 | 1.106 | 26 | 1.484 | 14.2 |
| $\mathbf{6 0 0 0 - 7 5 0 0} \mathbf{~ M H z}$ |  |  | 1.173 | 22 | 1.484 | 14.2 |

## Mechanical Specifications

Attachment Durability
Connector Retention Tensile Force
Connector Retention Torque
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

25 cycles
600 N | 134.885 lbf
4.5 N-m | 39.828 in lb

25 N-m | 221.269 in lb
1000 N | 224.809 lbf
MIL-C-39012C-3.25, 4.6.22
200 N | 44.962 lbf
IEC 61169-4:9.3.5
500 cycles
IEC 61169-4:9.5
IEC 60068-2-27

## Environmental Specifications

| Operating Temperature | $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-67^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$ |
| :--- | :--- |
| Storage Temperature | $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-67^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$ |
| Corrosion Test Method | IEC $60068-2-11$ |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC $60529: 2001$, IP68 |
| Thermal Shock Test Method | IEC $60068-2-14$ |

$-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-67{ }^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$
$-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-67{ }^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$
IEC 60068-2-11
1 m
Mated

IEC 60068-2-14

## L4DM-F

## Vibration Test Method

Packaging and Weights

IEC 60068-2-6

## Height, packed

248.92 mm | 9.8 in

Width, packed
Length, packed
Packaging quantity

* Footnotes

Warranty For more information, please consult our Product Warranty guidelines
Insertion Loss Coefficient, typical $0.05 \sqrt{ }^{-}$freq ( GHz ) (not applicable for elliptical waveguide)
Immersion Depth Immersion at specified depth for 24 hours

