

Series: 1.85mm Jack, PCB Compression Mount, 50 Ω, Stripline/Microstrip

185-J-P-EP-ST-XXX-X-X

PACKAGING

- BLANK: INDIVIDUALLY BAGGED
- B: FULL TRAY (QTY >= 100)

OPTION

- 1: OPTION 1 (WITHOUT SCREWS)
- 2: OPTION 2 (FOR PCB THICKNESS .016" TO .125")
- 3: OPTION 3 (FOR PCB THICKNESS .069" TO .178")

TERMINATION

- CM: COMPRESSION MOUNT STRIPLINE
- CMM: COMPRESSION MOUNT MICROSTRIP

MATERIAL AND FINISHES

Connector part	Material	Finish
Shell	Stainless Steel	Passivated
Bushing	Stainless Steel	Passivated
Pin	Beryllium Copper	50μ" Gold over Nickel
Insulator	Ultem 1000	N/A

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ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 67 GHz
VSWR ¹	DC to 26.5 GHz: 1.10:1 max 26.5 GHz to 40 GHz: 1.20:1 max 40 GHz to 50 GHz: 1.30:1 max 50 GHz to 67 GHz: 1.35:1 max
Insertion Loss ¹	$0.03\sqrt{F(\text{GHz})} \text{ dB max}$
LLCR - Center Contact	<6.0 mΩ
LLCR - Outer Contact	<2.0 mΩ
Dielectric Withstanding Voltage (DWV)	600 VRMS Min
Insulation Resistance	5,000 MΩ Min
Voltage Rating @ Sea Level	200 VRMS Max

¹connector only, does not include PCB launch effects

MECHANICAL DATA

Interface	I.A.W. IEC-61169-32 fig. 2	
Recommended Mating Coupler Torque	0.9-1.13 N-m (8-10 in-Lb.)	
Durability	500 Cycles minimum	
Force to Engage / Disengage	$\leq 0.23 \text{ N-m (2.0 in-Lb.) Max Torque}$	
Center Contact Retention	17.8 N (4.0 Lb.) Minimum Axial	
Mass	Compression Mount	1.77g (0.0039 pounds)
	Compression Mount, Microstrip	1.63g (0.0035 pounds)

ENVIRONMENTAL DATA

Temperature Range	-65 to +165°C
Thermal Shock	EIA-364-32, -55 to +125°C, 100 Cycles
Vibration	EIA-364-28, Condition V-B, 2 hrs/axis
Mechanical Shock	EIA-364-27, Condition G

REFERENCED DOCUMENTS

Configuration and Features	DRAWING
Compression Mount	185-J-P-EP-ST-CM-X-X
Compression Mount Microstrip	185-J-P-EP-ST-CMM-X-X

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