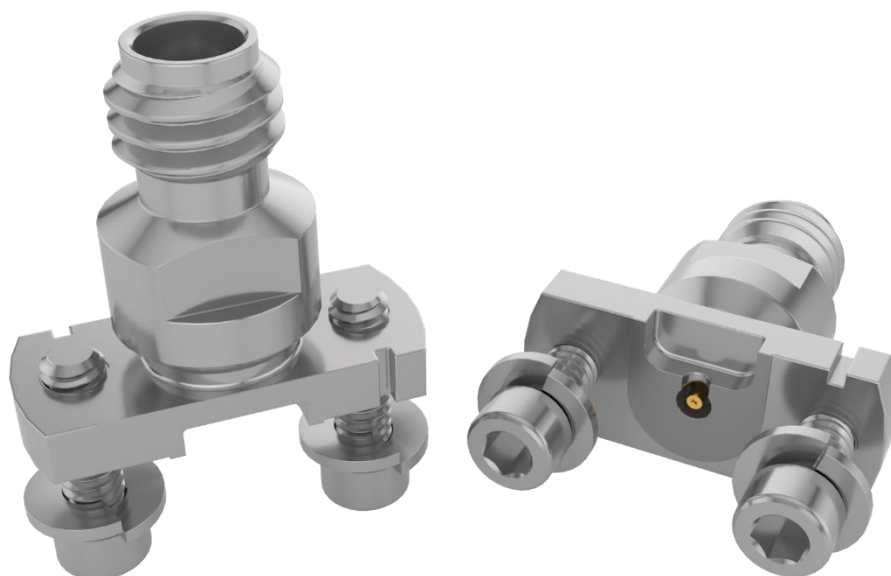
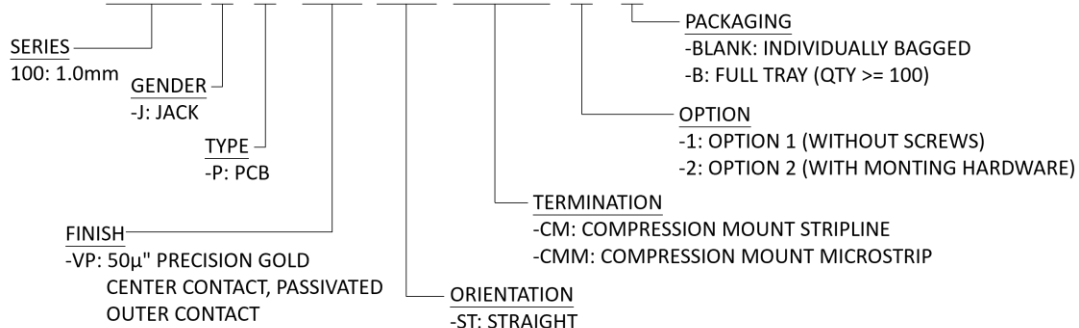


Series: 1.0mm Jack, Vertical Compression Mount, 50 Ω , Stripline/Microstrip



Part Number:

100-J-P-VP-ST-XXX-X-X



MATERIAL AND FINISHES

Connector part	Material	Finish
Body and Backing Plate	Stainless Steel	Passivate
Center Contact	Beryllium Copper	50 μ " Gold over Nickel
Support Insulator(s)	Ultem 1000 / PCTFE	N/A
Mounting Screws	Stainless Steel	Passivate

Series: 1.0mm Jack, Vertical Compression Mount, 50 Ω , Stripline/Microstrip

ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 120 GHz
VSWR ^{1,3}	DC to 40 GHz: < 1.25:1 Typ. 40 to 110 GHz: < 1.40:1 Typ. 110 to 120 GHz: < 1.6:1 Typ.
Insertion Loss ²	$0.03\sqrt{F(GHz)} \text{ dB max}$
LLCR - Center Contact	<6.0 m Ω
LLCR - Outer Contact	<2.0 m Ω
DWV - Dielectric Withstanding Voltage ³	625 VRMS Min
IR - Insulation Resistance	5,000 M Ω Min
Voltage Rating @ Sea Level ³	200 VRMS Max

¹ VSWR per connector when tested on Samtec multi-layer test PCB.

² Single connector insertion loss only.

³ May be further limited by PCB design

MECHANICAL DATA

Interface	I.A.W. IEC-61169, 2.1.1.2, Grade 1
Recommended Mating Coupler Torque	0.56-0.90 N-m (5-8 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	1.15g (0.0025 pounds)

ENVIRONMENTAL DATA

Temperature Range	-65 to +125°C
Thermal Shock	MIL-STD-202, method 107, cond. B (-65°C to +125°C)
Vibration	MIL-STD-202, method 204, cond. D (20g peak)
Mechanical Shock	MIL-STD-202, method 213, cond. I (100g peak)

REFERENCED DOCUMENTS

Configuration and Features	DRAWING
Compression Mount MICROSTRIP	100-J-P-VP-ST-CMM-X-X
Compression Mount STRIPLINE	100-J-P-VP-ST-CM-X-X



Series: 1.0mm Jack, Vertical Compression Mount, 50 Ω , Stripline/Microstrip

USE OF PRODUCT SPECIFICATION SHEET

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