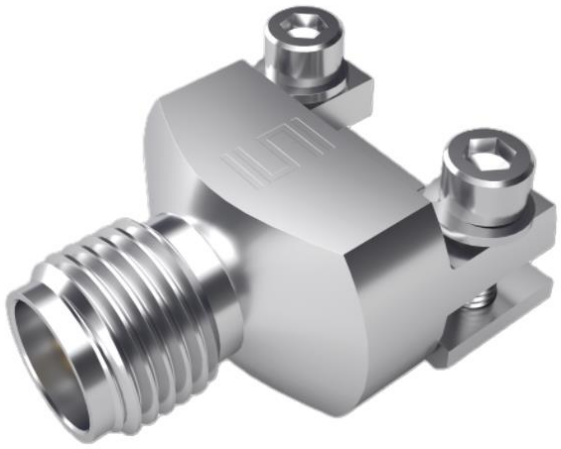
Series: 2.92mm Jack, PCB Solderless Edge Launch, 50 Ω



292-J-P-EP-ST-ELW-01-X

SERIES
292: 2.92MM

GENDER
-J: JACK

TYPE
-P: PCB

FINISH
-EP: 50µ" EXTRA HEAVY GOLD CENTER CONTACT, PASSIVATED OUTER CONTACT

ORIENTATION
-ST: STRAIGHT

TERMINATION
-ELW: EDGE LAUNCH WIDE

OPTION
-01: PCB THICKNESS 0.040" TO 0.100"

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

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MATERIAL AND FINISHES

Connector part	Material	Finish
Body and Backing Plate	Stainless Steel	Passivate
Center Contact	Beryllium Copper	50µ" Gold over Nickel
Dielectric Bead	Ultem 1000	N/A
Dielectric Insulator	PTFE	N/A
Mounting Screws/Lock Washers	Stainless Steel	Passivate

ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 40 GHz
VSWR[1]	1.10 Typ: DC to 18 GHz 1.15 Typ: 18 to 40 GHz
Insertion Loss[2]	$0.035\sqrt{F(GHz)}\ dB\ max$
LLCR - Center Contact	<6.0 mΩ
LLCR - Outer Contact	<2.0 mΩ
DWV - Dielectric Withstanding Voltage[3]	500 VRMS Min
IR - Insulation Resistance	5,000 MΩ Min
Voltage Rating @ Sea Level[3]	170 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. IEEE Std 287, fig. G.4 (2.92mm socket GPC connector)
Recommended Mating Coupler Torque	0.9-1.13 N-m (8-10 in-Lb.)
Durability	500 Cycles minimum
Force to Engage / Disengage	≤ 0.23 N-m (2.0 in-Lb.) Max Torque
Center Contact Retention	17.8 N (4.0 Lb.) Minimum Axial
Mass	4.31g (0.0095 pounds)

ENVIRONMENTAL DATA

Temperature Range	-65 to +165°C
Thermal Shock	MIL-STD-202, method 107, cond. F (-65°C to +150°C)
Vibration	MIL-STD-202, method 204, cond. D (20g peak)
Mechanical Shock	MIL-STD-202, method 213, cond. I (100g peak)

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REFERENCED DOCUMENTS

Configuration and Features	DRAWING
Edge Launch	292-J-P-EP-ST-ELW-01

USE OF PRODUCT SPECIFICATION SHEET

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