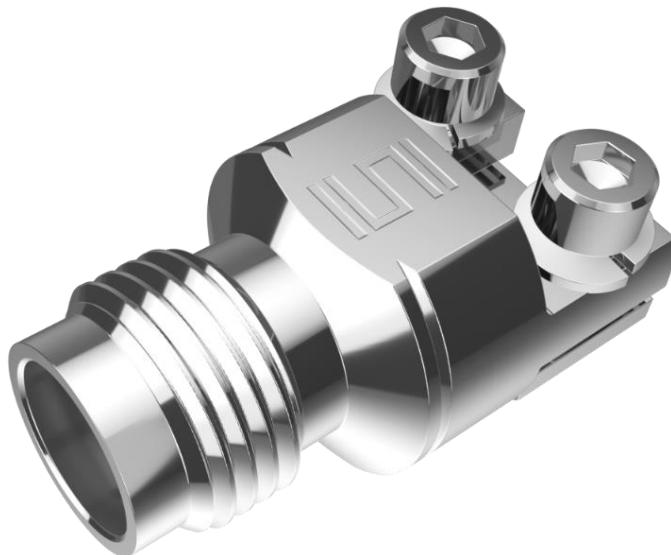
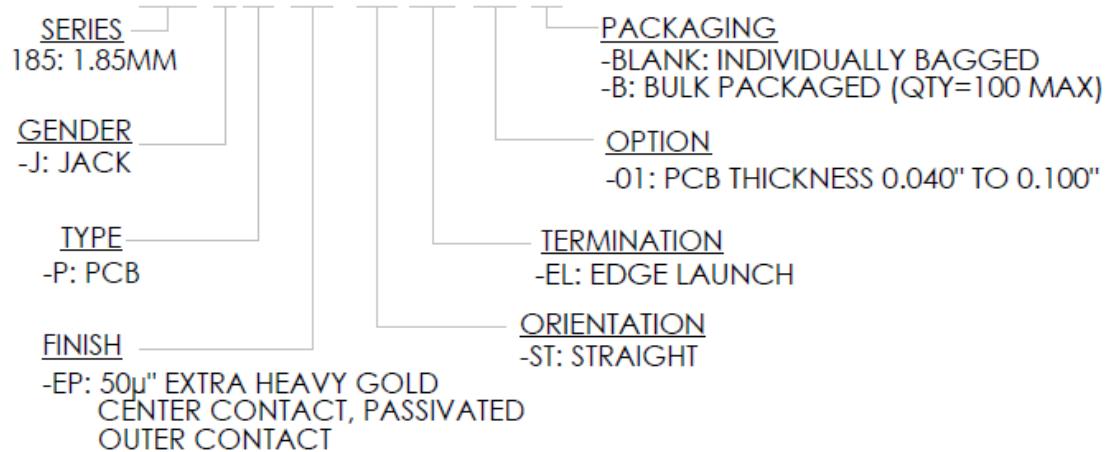


**Series:** 1.85mm Jack, PCB Solderless Edge Launch, 50 Ω**Part Number: 185-J-P-EP-ST-EL-01-X**

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

Series: 1.85mm Jack, PCB Solderless Edge Launch, 50 Ω

## ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 67 GHz
VSWR <sup>1</sup>	1.15 Typ: DC to 18 GHz 1.2 Typ: 18 to 40 GHz 1.3 Typ: 40 to 67 GHz
Insertion Loss <sup>2</sup>	$0.03\sqrt{F(\text{GHz})} \text{ dB max}$
LLCR - Center Contact	<6.0 mΩ
LLCR - Outer Contact	<2.0 mΩ
DWV - Dielectric Withstanding Voltage <sup>3</sup>	500 VRMS Min
IR - Insulation Resistance	5,000 MΩ Min
Voltage Rating @ Sea Level <sup>3</sup>	170 VRMS Max

<sup>1</sup> VSWR per connector when tested on Samtec multi-layer test PCB.

<sup>2</sup> Single connector insertion loss only.

<sup>3</sup> May be further limited by PCB design.

## MECHANICAL DATA

Interface	I.A.W. IEE Std 287, fig. 1.4
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)

## REFERENCED DOCUMENTS

Configuration and Features	DRAWING
Edge Launch	<a href="#">185-J-P-EP-ST-EL-01-X</a>

**Series:** 1.85mm Jack, PCB Solderless Edge Launch, 50 Ω

### **USE OF PRODUCT SPECIFICATION SHEET**

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