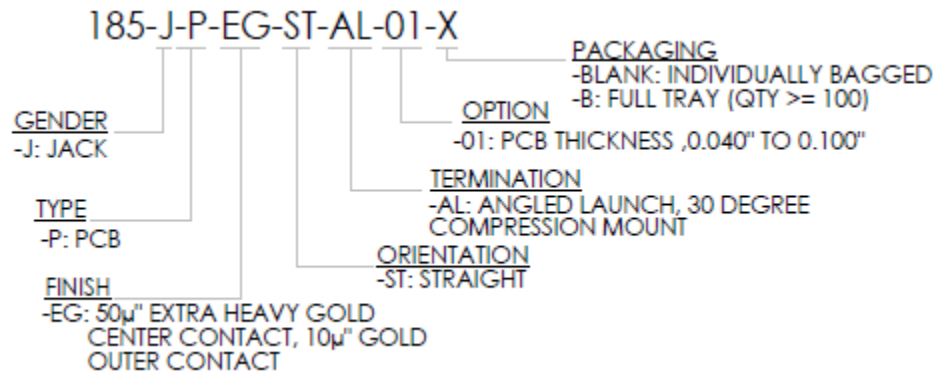
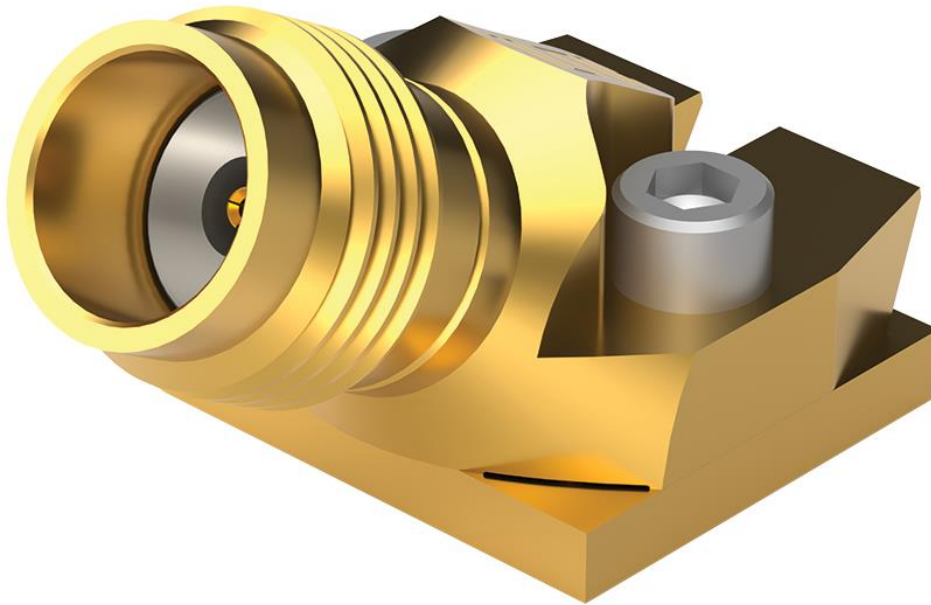


Series: 1.85mm 30 Deg Angled Jack Compression Mount , 50 Ω



connector part	Material	Finish
Body	Beryllium Copper	10μ" Gold over Nickel
Center Contact	Beryllium Copper	50μ" Gold over Nickel
Back Plate, Dowel Pins, and Bushing	Stainless Steel	Passivated
Dielectric Bead	Peek	N/A
Mounting Screws	Stainless Steel	Passivated

**Series:** 1.85mm 30 Deg Angled Jack Compression Mount, , 50 Ω

**ELECTRICAL DATA**

Impedance	50 Ohm
Frequency Range	DC to 67 GHz
VSWR <sup>1</sup>	1.15 Typ: DC to 18 GHz 1.25 Typ: 18 to 40 GHz 1.35 Typ: 40 to 67 GHz
Insertion Loss <sup>2</sup>	$0.03\sqrt{F(GHz)} \text{ dB max}$
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	0.5-0.8 in-Lb.
Durability	500 Cycles minimum
Force to Engage / Disengage	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 +125°C
Thermal Shock	MIL-STD-202, method 107, cond. I (-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**

<b>Configuration and Features</b>	<b>DRAWING</b>
Angle Launch	<a href="#">185-J-P-EG-ST-AL-01</a>

Series: 1.85mm 30 Deg Angled Jack Compression Mount , 50  $\Omega$

**USE OF PRODUCT SPECIFICATION SHEET**

This Product Specification Sheet (“PSS”) is a brief summary of information related to the Product identified. As a summary, it should only be used for the limited purpose of considering the purchase/use of Product. This PSS is the property of Samtec, Inc. (“Samtec”) and contains proprietary information of Samtec, our various licensors, or both. Samtec does not grant express or implied rights or license under any patent, copyright, trademark or other proprietary rights and the use of the PSS for building, reverse engineering or replication is strictly prohibited. By using the PSS, the user agrees to not infringe, directly or indirectly, upon any intellectual property rights of Samtec and acknowledges that Samtec, our various licensors, or both own all intellectual property therein. The PSS is presented “AS IS”. While Samtec makes every effort to present excellent information, the PSS is only provided as a guideline and does not, therefore, warrant it is without error or defect or that the PSS contains all necessary and/or relevant information about the Product. The user agrees that all access and use of the PSS is at its own risk. **NO WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY KIND WHATSOEVER ARE PROVIDED**