

# High Performance End Launch Connector PSF-S01 Series (End Launch SMA)

www.gigalane.com



GigaLane End Launch SMA Connector is designed for applications such as High Performance RF Circuit Boards. It is attached to RF circuit board by inserting the board edge between legs and soldering legs. It has excellent return Loss up to 26.5 GHz.

## ► Specification

### Electrical

Frequency	High performance SMA	DC ~ 26.5 GHz
Impedance	50 Ω	
VSWR	1.2 : 1 (@18GHz) 1.3 : 1 (@26.5GHz)	
Insulation Resistance	5000 MΩ	
Dielectric Withstand Voltage	1000 Vrms max	
Contact Resistance - Outer Conductor - Inner Conductor	2 mΩ max	
Insertion Loss	0.4 dB max (@26.5GHz)	
RF Leakage	-90 dB	
Power Handling	200 W @ 2GHz	

### Mechanical

Mating Cycle (Durability)	500	
Recommended Mating Torque Proof Torque	0.9 ~ 1.13 Nm / 8 ~ 10 lbs 1.7 Nm / 15.0 lbs	
Coupling Nut Retention Force	270 N / 27.7 kfg / 61 lbs	
Center Contact Retention Force	2.6 pound (axial)	

### Environmental

Temperature	-40°C ~ +125°C	
Thermal Shock	MIL-STD-202, Method 107, Test Condition B	
Corrosion (salt Spray)	MIL-STD-202, Method 101, Condition B, 5% salt	
Shock	MIL-STD-202, Method 213, Condition I	
Vibration	MIL-STD-202, Method 204, Condition D	
Moisture Resistance	MIL-STD-202, Method 106	

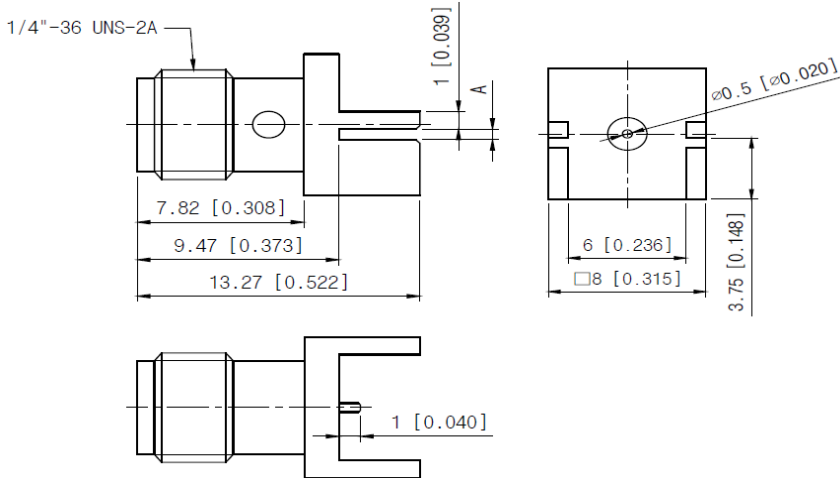
### Materials

Body	Stainless Steel Brass	Passivated Gold Plated
Center Contact	Beryllium Copper(BeCu) Brass	Gold Plated Gold Plated
Insulator	PTFE	-

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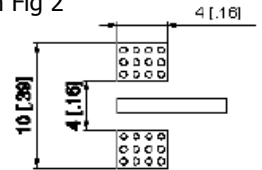
## ► Drawing



Unit : mm [inch]

Part Number	PIN Dia.
PFS-S01-000	0.60 [0.024]
PFS-S01-001	0.80 [0.031]
PFS-S01-002	1.00 [0.039]
PFS-S01-003	1.10 [0.043]
PFS-S01-004	1.20 [0.047]
PFS-S01-005	1.30 [0.051]
PFS-S01-006	1.50 [0.059]
PFS-S01-007	1.60 [0.063]
PFS-S01-008	1.73 [0.068]
PFS-S01-009	2.10 [0.083]
PFS-S01-010	2.25 [0.089]
PFS-S01-011	3.60 [0.142]

\*PCB pattern Fig 2



## ► Test Result

### SMA Connector (P/N : PSF-S01-000~011)

