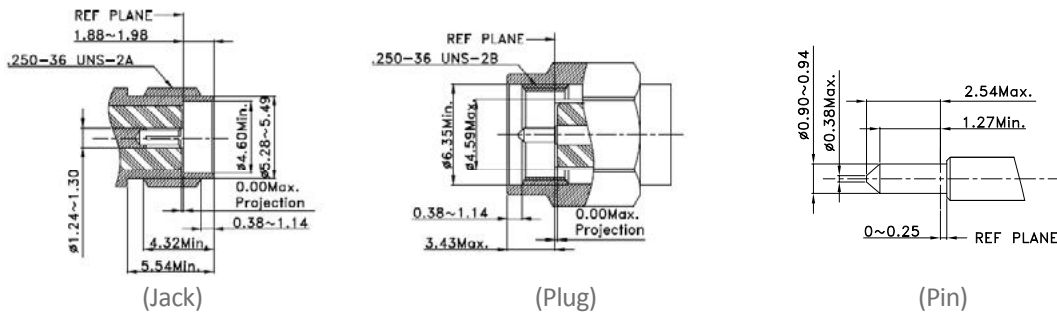


## ► Introduction

GigaLane High Performance SMA Connectors are designed for applications up to 26.5 GHz in the common high frequency substrates and it is suitable for military and microwave frequencies.

## ► Interface Standards(MIL-STD-348)

Unit : mm [Inch]



## ► Specification

### Electrical

Frequency	DC to 26.5 GHz
Impedance	50 Ω
VSWR (Only Connector)	1.3:1(@18 GHz), 1.43:1(@26.5 GHz)
Insulation Resistance	5000 MΩ
Dielectric Withstand Voltage	1000 Vrms max.
Contact resistance - Outer Conductor - Inner Conductor	2mΩ max. 3mΩ max.
Insertion Loss	0.3 dB max.
RF Leakage	- 90 dB
Power Handling	200 W @ 2 GHz

### Mechanical

Mating Cycle (Durability)	500
Recommended Mating Torque Proof Torque	0.9 ~ 1.13 Nm / 8 ~ 11.5 kgfcm 1.7 Nm / 15.0 lbs
Coupling Nut Retention Force	270 N / 27.7 kgf / 61 lbs
Center Contact Retention Force	2.6 pound (axial)

### Environmental

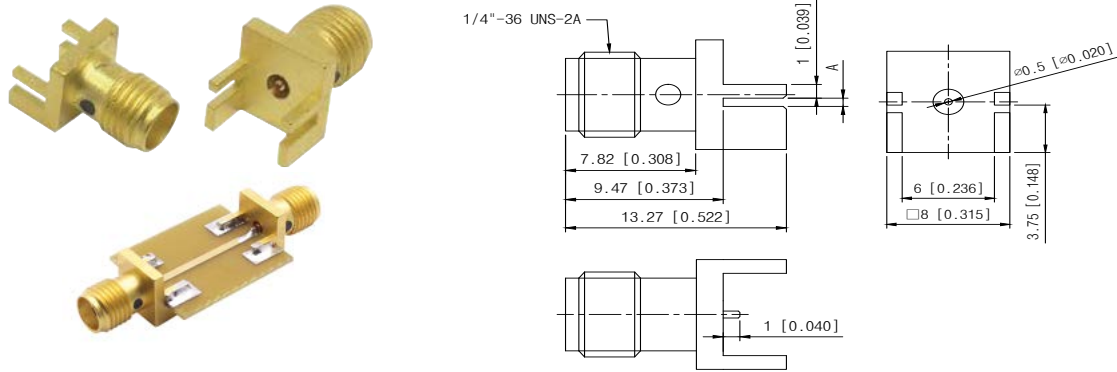
Temperature	- 40°C to + 125°C
Thermal Shock	condition B
Corrosion (Salt Spray)	condition B, 5% Salt
Shock	condition I
Vibration	condition D
Moisture Resistance	MIL-STD-202, method 106

### Materials

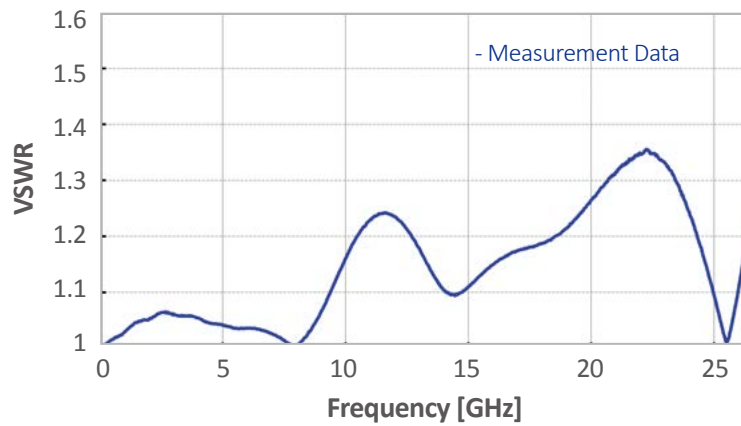
Body	Brass	Gold Plated
Center Contact	Beryllium Copper (BeCu)	Gold Plated
Insulator	PTFE	-

# High Performance End Launch Connectors

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.



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



Unit : mm [Inch]

Part No.	DIM A.
PSF-S01-000	0.60 [0.024]
PSF-S01-001	0.80 [0.031]
PSF-S01-002	1.00 [0.039]
PSF-S01-003	1.10 [0.043]
PSF-S01-004	1.20 [0.047]
PSF-S01-005	1.30 [0.051]
PSF-S01-006	1.50 [0.059]
PSF-S01-007	1.60 [0.063]
PSF-S01-008	1.73 [0.068]
PSF-S01-009	2.10 [0.083]
PSF-S01-010	2.25 [0.089]
PSF-S01-011	3.60 [0.142]

\*PCB Pattern See Appendix Fig 2.