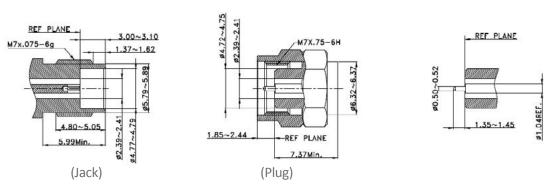
# 2.4mm Connectors

### ► Introduction

GigaLane 2.4 mm Connectors are precision connectors for optimum RF performance up to 50 GHz. The connectors feature excellent mechanical stability, extreme reliability and it maintains highly cost-effective pricing, short lead-time. The connector is compatible with 1.85 mm connectors. It is applicable to military and telecommunication application.

Unit : mm

## Interface Standards(MIL-STD-348)



## Specification

#### Electrical

Frequency	DC to 50 GHz	DC to 50 GHz	
Impedance	50 Ω		
VSWR	1.4:1(@50GHz)		
Insulation Resistance	5000 ΜΩ		
Dielectric Withstand Voltage	500 Vrms		
Contact Resistance - Outer Conductor - Inner Conductor	$2m\Omega$ max. $4m\Omega$ max.		
Insertion Loss	0.45 dB max. (@ 50 GHz)		
RF Leakage	- 100 dB max.		
Power Handling	70W (@ 2 GHz)		
Mechanical			
Mating Cycle (Durability)	500		
Recommended Mating Torque Proof Torque	8 ~ 10 inch-pounds 15 inch-pounds min.		
Coupling Nut Retention Force	60 inch-pounds min.(Male only)		
Center Contact Retention Force	4 pound(axial)		
Environmental			
Temperature	- 40°C to + 125°C	- 40°C to + 125°C	
Thermal Shock	MIL-STD-202, method 107, condition B		
Corrosion (Salt Spray)	N/A		
Vibration	MIL-STD-202, method 204, condition D (20G)		
Moisture Resistance	MIL-STD-202, method 106		
Materials			
Body	Stainless Steel	Passivated	
Center Contact	BeCu	Gold Plated	
Insulator	Engineering Plastic	-	

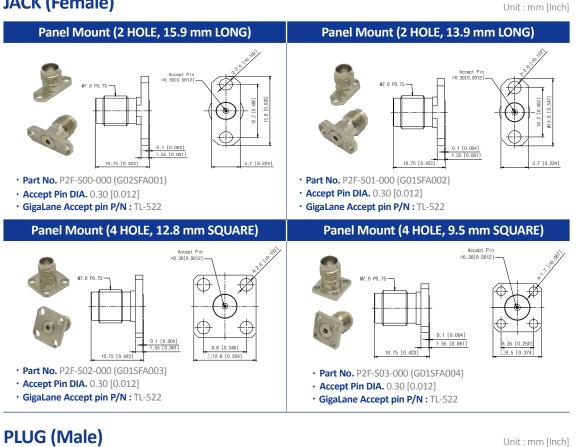
## 2.4mm Connectors

## Gigalane

- DC to 50 GHz
- Mechanically Compatible with 1.85 mm Connectors

## ► JACK (Female)

- Air Dielectric
- · Captivated Center Contact



## PLUG (Male)

• GigaLane Accept pin P/N : TL-522

Panel Mount (2 HOLE, 15.9 mm LONG) Panel Mount (2 HOLE, 13.9 mm LONG) 0.1 [0.004] 0.004] 5.7 [0.224] .7 [0.224] • Part No. P2M-S01-000 (G01SMA002) • Part No. P2M-S00-000 (G01SMA001) • Accept Pin DIA. 0.30 [0.012] • Accept Pin DIA. 0.30 [0.012] • GigaLane Accept pin P/N : TL-522 • GigaLane Accept pin P/N : TL-522 Panel Mount (4 HOLE, 12.8 mm SQUARE) Panel Mount (4 HOLE, 9.5 mm SQUARE) 8 [0.315] • Part No. P2M-S02-000 (G01SMA003) · Part No. P2M-S03-000 (G01SMA004) • Accept Pin DIA. 0.30 [0.012] • Accept Pin DIA. 0.30 [0.012]

**RF & MW Connectors** 

• GigaLane Accept pin P/N : TL-522