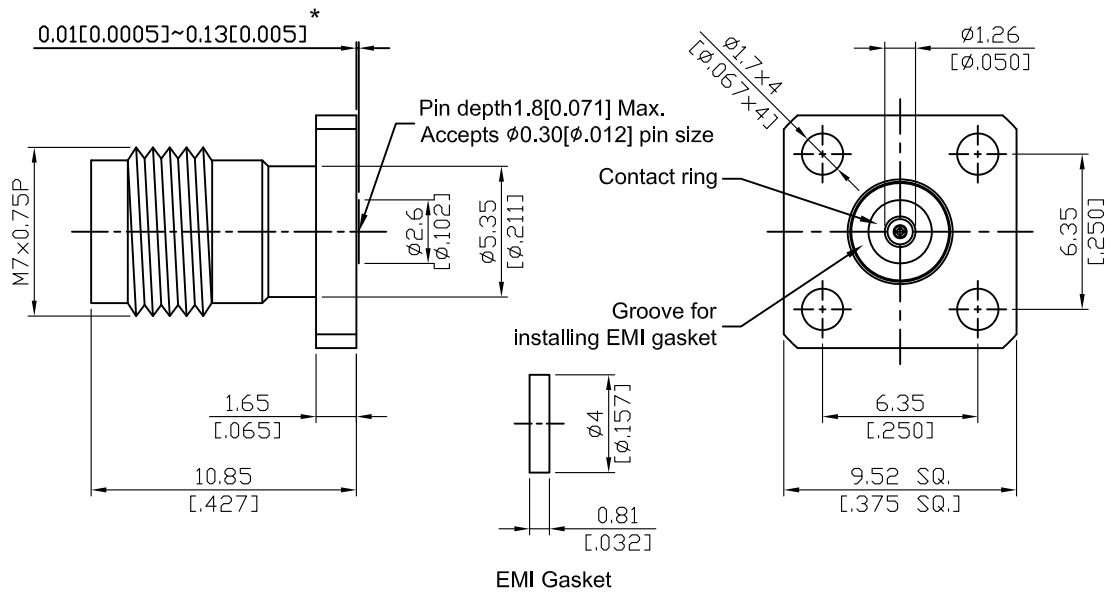


2.4-8F46D-GA12

2.4mm Field Replaceable Jack,
SQ 9.52mm (.375inch) 4 Hole Flange With EMI Gasket,
Accepts $\Phi 0.30$ mm (.012inch) Pin, 50GHz VSWR 1.18

50 Ω



*360° Raised Metal Contact Ring

| Parts | Material | Plating (Micro-inch) |
|--------------|--------------------------------|---|
| Body | Stainless Steel | Passivated |
| Insulator | PEI | |
| Contact Pin | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Contact Ring | Stainless Steel | Passivated |
| EMI Gasket | Conductive Silicone Elastomers | |

This part number complies with RoHS.

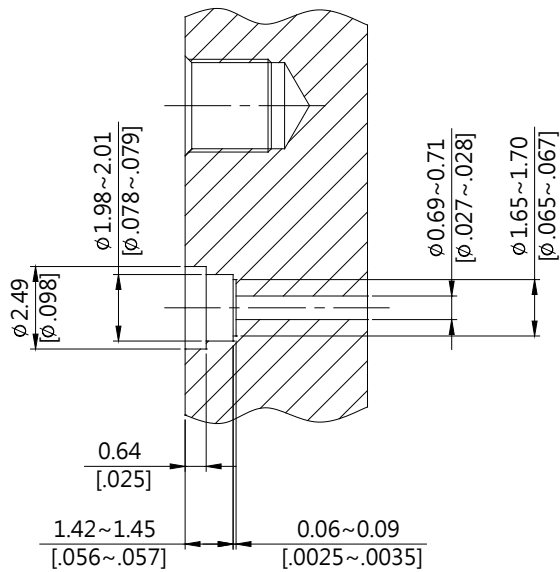
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| 2.4 | 2.4-8F46D-GA12 |
|--|----------------|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Interface</div> MIL-STD-348B Mechanically compatible with 1.85 | |
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Electrical Data</div> Impedance 50Ω Frequency range DC to 50GHz VSWR ≤ 1.18 (DC to 50GHz) Insertion loss $\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB Insulation resistance $\geq 5000\text{M}\Omega$ Contact resistance inner conductor $\leq 4\text{m}\Omega$ Contact resistance outer conductor $\leq 2.5\text{m}\Omega$ Dielectric withstanding voltage (sea level) 500V rms Working voltage (sea level) 150V rms RF leakage $\geq 100\text{dB}$ to 1GHz | |
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Mechanical Data</div> Recommended coupling nut torque 7.08 to 9.74 inch lbs Coupling proof Torque 15 inch lbs Contact captivation-axial ≥ 4.5 lbs Durability (mating) ≥ 500 | |
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Environmental Data</div> Temperature range -40°C to +150°C Thermal shock MIL-STD-202, Method 107, Condition B Moisture resistance MIL-STD-202, Method 106 Corrosion MIL-STD-202, Method 101, Condition B RoHS Compliant | |
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Accessories</div> Hermetic seal FR012-SEAL1; FR012-SEAL2; SEAL.012 Launch pin & Dielectric transition FR012-LAUNCH1; FR012-LAUNCH2 Tab pin & Dielectric transition FR012-TAB2; FR012-TAB3 Tab pin FR012-TAB1 | |

Notice: JYEBAO reserves the right to make modifications deemed appropriate.

Recommended Launch Hole Dimensions :

1. Using Hermetic seals



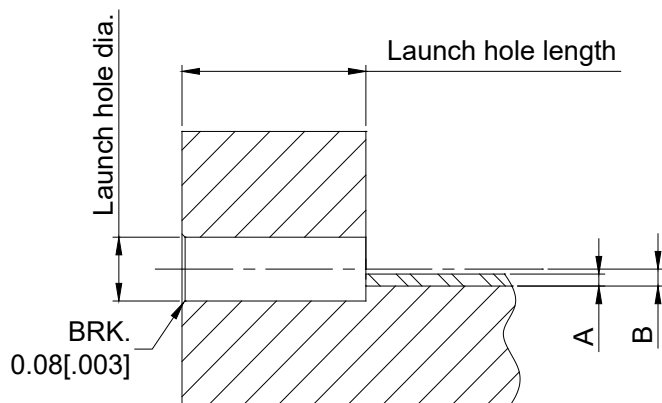
Hermetic seal P/N

SEAL.012

FR012-SEAL1

FR012-SEAL2

2. Using dielectric with Tab or Launch pin

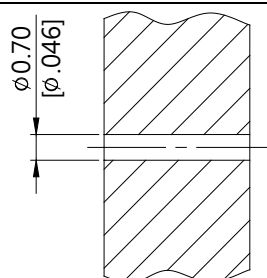


"A" = Substrate thickness

"B" = A + 1/2 Tab or Launch terminal

| Dielectric and Tab/Launch pin P/N | Recommended Launch hole dia. | Recommended Launch hole length |
|-----------------------------------|------------------------------|--------------------------------|
| FR012-LAUNCH1 | $\phi 0.99 (.039)$ | 4.75 (.187) |
| FR012-LAUNCH2 | $\phi 0.99 (.039)$ | 3.18 (.125) |
| FR012-TAB2 | $\phi 0.99 (.039)$ | 3.18 (.125) |
| FR012-TAB3 | $\phi 0.99 (.039)$ | 4.75 (.187) |

3. Using Tab pin



Tab pin P/N

FR012-TAB1

2.4-8F46D-GA12 (Tested back to back)

S11

