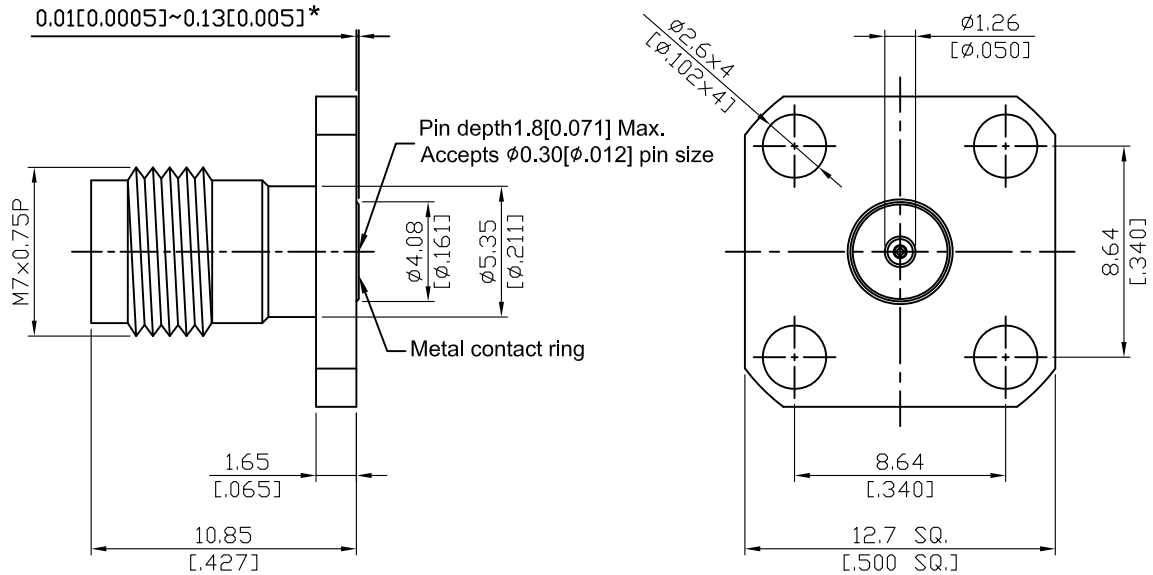


2.4-8F46C-EM12

2.4mm Field Replaceable Jack,
SQ 12.7mm (.500inch) 4 Hole Flange With Metal Ring,
Accepts $\phi 0.30\text{mm}$ (.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
Metal Contact Ring	Beryllium Copper	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20

This part number complies with RoHS.

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

2.4	2.4-8F46C-EM12
<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 +165°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	ϕ 0.99 (.039)	4.75 (.187)
FR012-LAUNCH2	ϕ 0.99 (.039)	3.18 (.125)
FR012-TAB2	ϕ 0.99 (.039)	3.18 (.125)
FR012-TAB3	ϕ 0.99 (.039)	4.75 (.187)

3. Using Tab pin

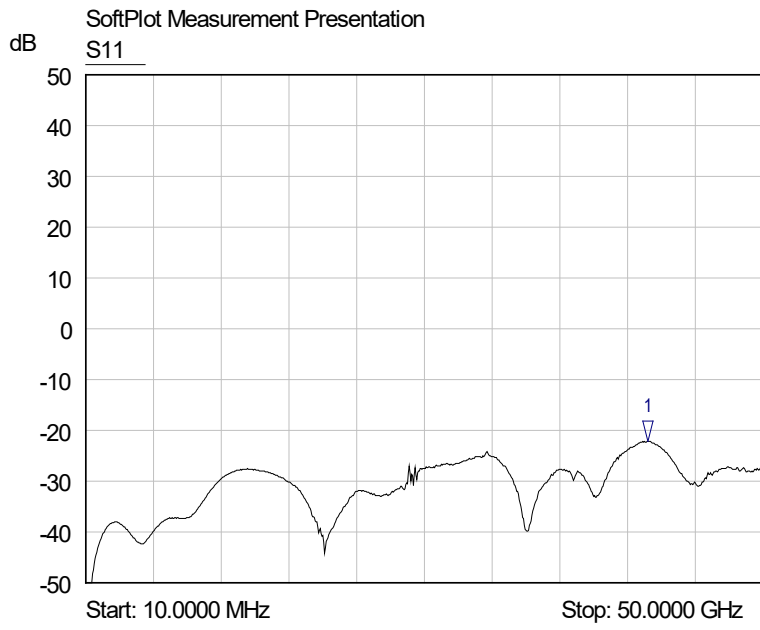


Tab pin P/N

FR012-TAB1

2.4-8F46C-EM12

S11



1 S11
▽ 41.4911 GHz
-22.16 dB