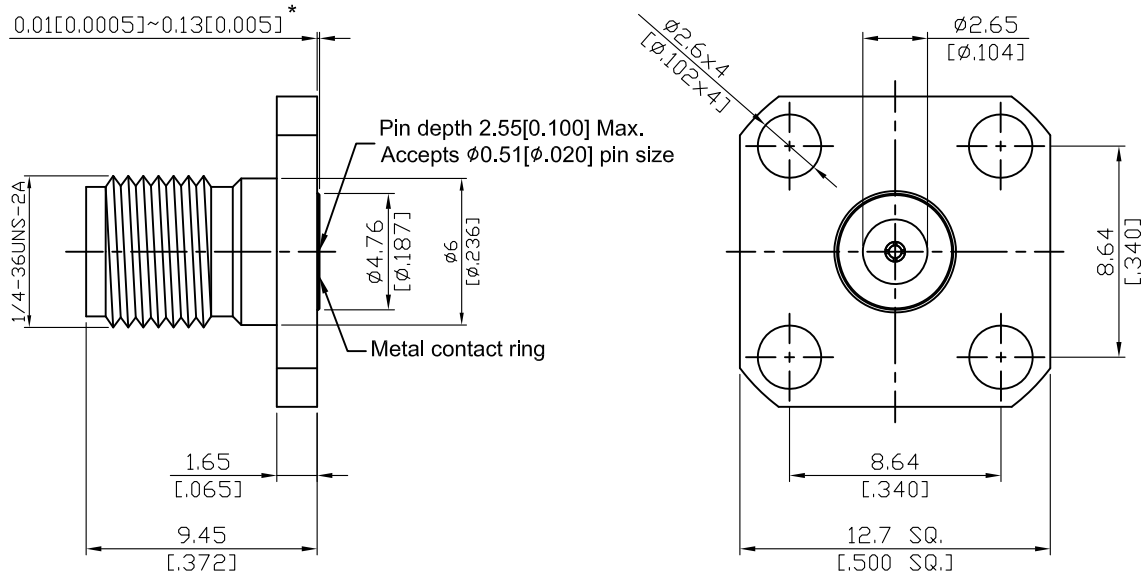


SMA8F46EC-EM20

SMA Field Replaceable Jack
 SQ 12.7mm (.500inch) 4 Hole Flange With Metal Ring
 Accepts $\phi 0.51\text{mm}$ (.020inch) pin, 27GHz VSWR1.15

50 Ω



*360° Raised Metal Contact Ring

| Parts | Material | Plating (Micro-inch) |
|--------------------|------------------|---|
| Body | Stainless Steel | Passivated |
| Insulator | Teflon | |
| Contact Pin | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Metal Contact Ring | Stainless Steel | Passivated |

This part number complies with RoHS.

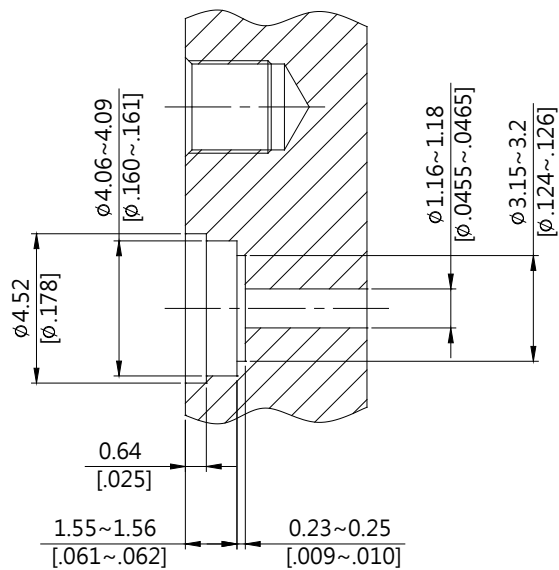
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA | SMA8F46EC-EM20 |
|--|--------------------------------------|
| Interface | |
| MIL-STD-348B | |
| Mechanically compatible with | 2.92 & 3.5 |
| Electrical Data | |
| Impedance | 50Ω |
| Frequency range | DC to 27GHz |
| VSWR | ≤ 1.15 (DC to 27GHz) |
| Insertion loss | ≤ 0.04 x √f(GHz) dB |
| Insulation resistance | ≥ 5000MΩ |
| Contact resistance inner conductor | ≤ 3mΩ |
| Contact resistance outer conductor | ≤ 2mΩ |
| Dielectric withstanding voltage (at sea level) | 1500 V rms |
| Working voltage (at sea level) | 500 V rms |
| Mechanical Data | |
| Recommended coupling nut torque | 7 to 9.5 inch lbs |
| Coupling proof torque | 15 inch lbs |
| Contact Captivation-axial | ≥ 6.1 lbs |
| Durability (mating) | ≥ 500 |
| Environmental Data | |
| Temperature range | -65°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 |
| Accessories | |
| Hermetic seal | SEAL.02 |
| Launch pin & Dielectric transition | FR020-LAUNCH1; FR020-LAUNCH2 |
| Tab pin & Dielectric transition | FR020-TAB2; FR020-TAB3 |
| Tab pin | FR020-TAB1; FRPIN.02 |

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

Recommended Launch Hole Dimensions :

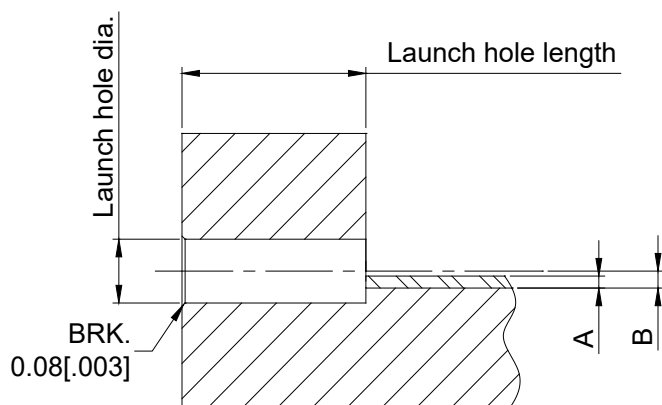
1. Using Hermetic seals



Hermetic seal P/N

SEAL.02

2. Using dielectric with Tab or Launch pin

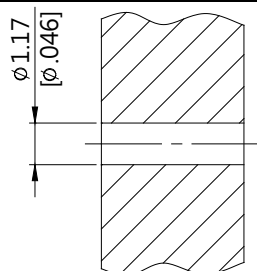


"A" = Substrate thickness

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

| Dielectric and Tab/Launch pin P/N | Recommended Launch hole dia. | Recommended Launch hole length |
|-----------------------------------|------------------------------|--------------------------------|
| FR020-LAUNCH1 | ϕ 1.63 (.064) | 4.75 (.187) |
| FR020-LAUNCH2 | ϕ 1.63 (.064) | 3.18 (.125) |
| FR020-TAB2 | ϕ 1.63 (.064) | 4.75 (.187) |
| FR020-TAB3 | ϕ 1.63 (.064) | 3.18 (.125) |

3. Using Tab pin



Tab pin P/N

FR020-TAB1

FRPIN.02

SMA8F46EC-EM20 (Tested back to back)

S11

