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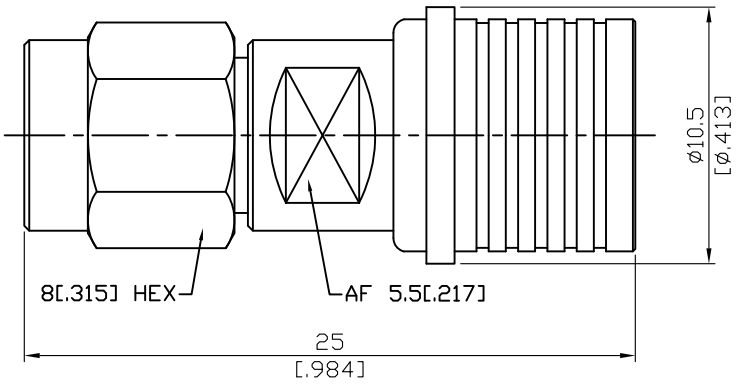
| AD-A3Q3 | SMA Plug to QMA Plug;<br>6GHz VSWR 1.1; 18GHz VSWR 1.25 | 50Ω |
|---|---|---|




| Parts | Material | Plating ( Micro-inch ) |
|---|---|---|
| Coupling Nut | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 |
| Body | Brass | Tin-Zinc-Copper-Alloy 100 Over Copper 50 |
| Contact Body | Beryllium Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50 |
| Insulator | Teflon | |
| Contact Pin | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Gasket | Silicone | |
| Retainer Ring | Beryllium Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50 |

This part number complies with RoHS.
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

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| AD-A3Q3 | SMA Plug to QMA Plug;<br>6GHz VSWR 1.1; 18GHz VSWR 1.25 |
|---|---|

## Interface

| | SMA | QMA |
|---|---|---|
| Standard | MIL-STD-348B | Jyebao QMA |
| Mechanically Compatible With | 2.92 & 3.5 | |

## Electrical Data

| | |
|---|---|
| Impedance | 50Ω |
| Frequency Range | DC To 18GHz |
| VSWR | ≦1.1 (DC To 6GHz); ≦1.25 (18GHz) |
| Insertion Loss | ≦0.06 x $\sqrt{f}$(GHz) dB |
| Insulation Resistance | ≧5000MΩ |
| Dielectric Withstanding Voltage (at sea level) | 1000 V rms |
| Working Voltage (at sea level) | 335 V rms |

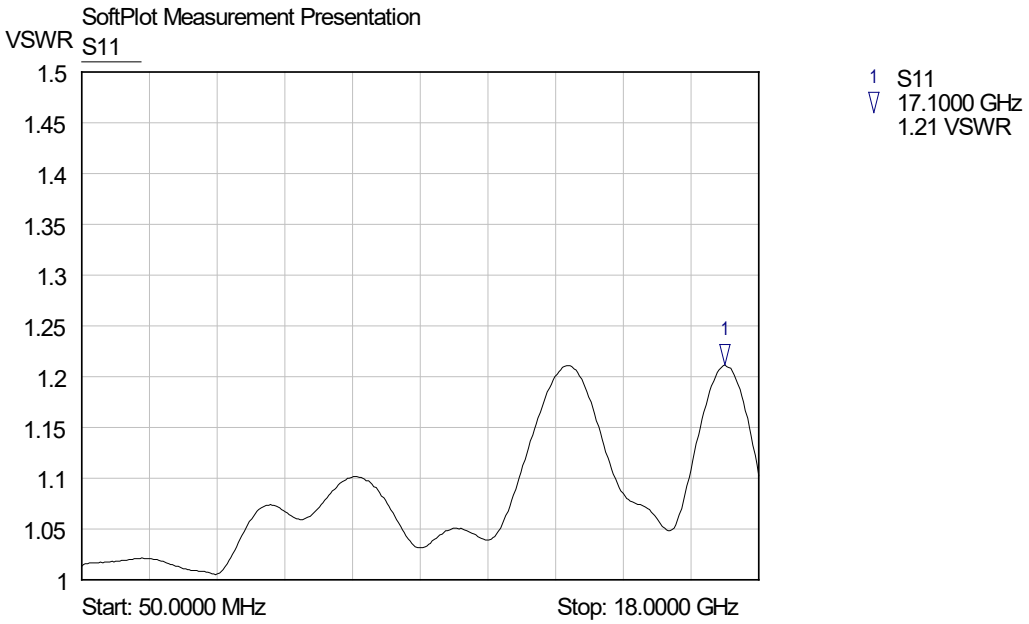
## Mechanical Data

| | SMA | QMA |
|---|---|---|
| Recommended Coupling Nut Torque | 4 in-lbs | NA |
| Coupling Proof Torque | 5.3 in-lbs | NA |
| Coupling Nut Retention Force | ≧60.7 lbs | NA |
| Engagement Force | NA | 5.6 lbs |
| Disengagement Force (typical) | NA | 4.5 lbs |
| Contact Captivation-axial (typical) | ≧6.1 lbs | NA |
| Durability (mating) | ≧100 | ≧100 |

## Environmental Data

| | |
|---|---|
| Temperature Range | -65°C to +165°C |
| Thermal Shock | MIL-STD-202, Method 107, Condition B |
| Moisture Resistance | MIL-STD-202, Method 206 |
| Corrosion | MIL-STD-202, Method 101, Condition B |
| RoHS | Compliant |

# AD-A3Q3


SoftPlot Measurement Presentation
VSWR
S11
1.5
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
1
Start: 50.0000 MHz
Stop: 18.0000 GHz
1 S11
17.1000 GHz
1.21 VSWR