

QFA5002

DC~50GHz, 2W

Features:

- * Low VSWR
- * High Attenuation Flatness

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

| | |
|-------------------------------|---|
| Frequency: | DC~50GHz |
| Attenuation: | 0~10, 12, 15, 20, 30, 40, 50dB |
| Impedance: | 50Ω |
| Average Power ^{*1} : | 2W@25°C max. |
| Peak Power: | 200W (5μS pulse width, 1% duty cycle) @40, 50dB 20W (5μS pulse width, 1% duty cycle) @30dB |

[1] Derated linearly to 0.2W@125°C.@40, 50dB

[2] Derated linearly to 0.5W@125°C.@30dB

Mechanical

| | |
|-----------------------|--|
| RF Connectors: | 2.4mm |
| Dielectric: | PEI |
| Outer Conductor: | Passivated stainless steel/ Nickel plated brass |
| Male Inner Conductor: | Gold plated brass/Gold plated beryllium copper |

Environmental

Temperature: -55~+125°C

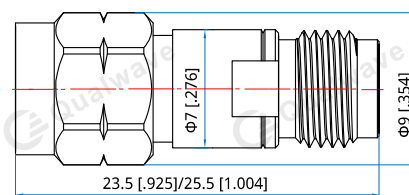
Outline Drawings


图 1

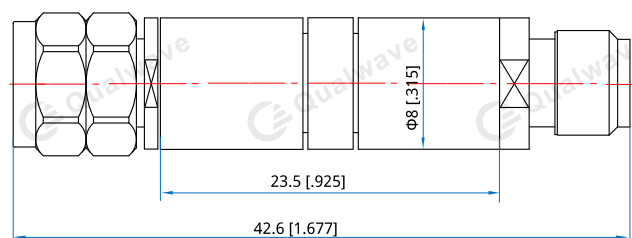


图 2

Unit: mm [in]

Tolerance: ±2mm [±0.08in]

| Attenuation (dB) | Length (mm [in]) |
|------------------|------------------|
| 0~10, 12, 15, 20 | 23.5 [0.925] |
| 30 | 25.5 [1.004] |
| 40, 50 | 42.6 [1.677] |

Attenuation Accuracy and VSWR

| Frequency (GHz) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | | | | VSWR (max.) |
|-----------------|---|-----------|-----------|-----------|-----------|-----------|------|------|--|-----------------------------------|
| | 0 | 1~10 | 12 | 15 | 20 | 30 | 40 | 50 | | |
| DC~50 | -0.2/+1.0 | -1.0/+1.0 | -1.0/+1.0 | -1.0/+1.0 | -1.0/+1.0 | -1.0/+1.2 | ±1.5 | ±1.5 | | 1.3@30dB, 1.4, 1.45@40dB, 50dB |

How To Order
QFA5002-X-Y-Z

X: Frequency in GHz

Y: Attenuation in dB

(Outline A - 0~10, 12, 15, 20, 30dB, Outline B - 40, 50dB)

Z: Connector type

Connector naming rules:

2 - 2.4mm

Examples:

To order an attenuator, DC~50GHz, 2.4mm male to 2.4mm female, 20dB attenuation, specify QFA5002-50-20-2.