



WFA5002

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

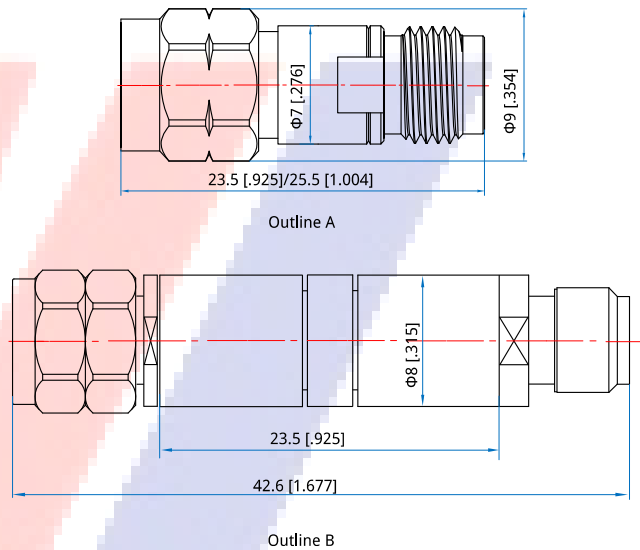
Mechanical

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



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

WFA5002-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 WFA5002-50-20-2.