WFA4002

DC~40GHz, 2W

Features:
* Low VSWR
* High Attenuation Flatness

Applications:
* Wireless
* Transmitter
* Laboratory Test
* Radar

Electrical

Frequency:	DC~40GHz
Attenuation:	0~15, 20, 25, 30, 40, 50dB
Impedance:	50Ω
Average Power[*1]:	2W@25°C max.

[1] Derated linearly to 0.5W@125°C.

Mechanical

RF Connectors:	2.92mm, SMP, SSMP, SSMA
Outer Conductor:	Passivated stainless steel/ Gold plated brass/Gold plated beryllium copper
Dielectric:	PEI/PTFE
Inner Conductor:	Gold plated brass/Gold plated beryllium copper

Environmental

Temperature:	-55~+125℃

Length (mm/in)

Attenuation (dB)	2.92mm
0	21.9 [.862]
1~30	17.2 [.677]
40	47.6 [1.874]
50	49 [1.929]

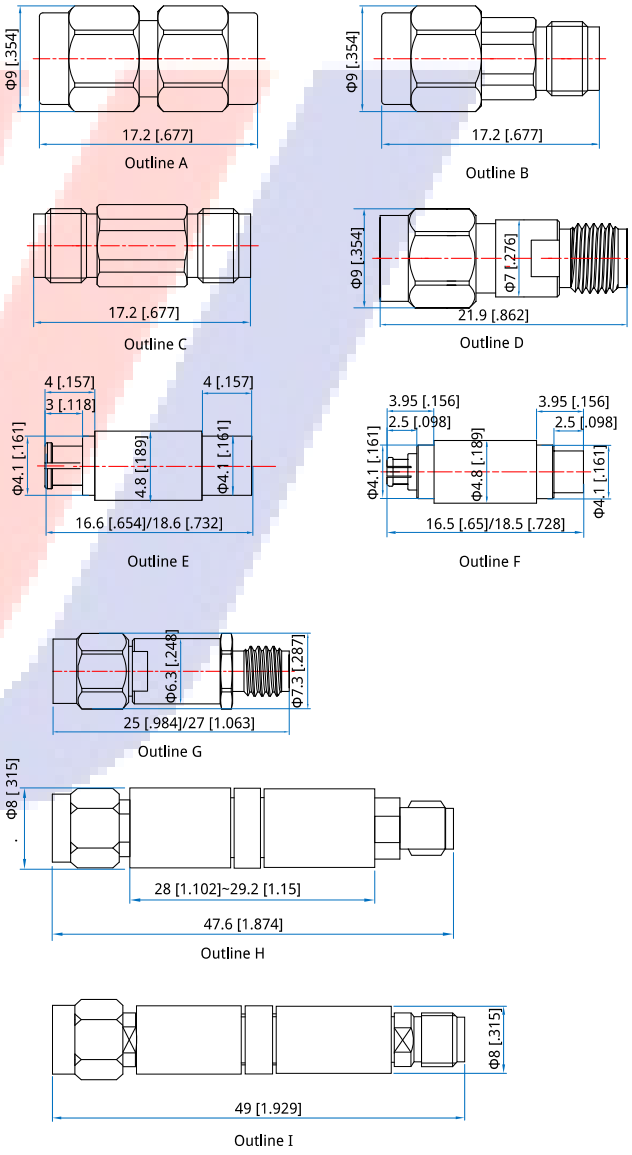
Length (mm/in)

Attenuation (dB)	SMP	SSMP	SSMA
0~10, 12, 15, 20	16.6 [.654]	16.5 [.65]	25 [.984]
30	18.6 [.732]	18.5 [.728]	27 [1.063]

Peak Power

Peak Power (W)	Pulse Width (μS)	Duty Cycle (%)	Applicable Scope
20	5	1	2.92mm(1~30dB)、SMP、SSMP、SSMA
200		1	2.92mm(40、50dB)

Outline Drawings



Unit: mm [in]
Tolerance: ±0.2mm [±0.008in]

Attenuation Accuracy and VSWR(2.92mm)

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)							VSWR (max.)
	0	1~3	4~15	20/25	30	40	50	
DC~40	-0.2/+0.8	±0.6	±0.7	±0.8	±1	-1.0/+2.0	-1.0/+2.0	1.25, 1.35@0dB, 1.4@40, 50dB

Attenuation Accuracy and VSWR(SMP/SSMP/SSMA)

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)							VSWR (max.)
	0	1~6	7~10	12	15	20	30	
DC~40	-0.2/+0.8	-0.4/+1.0	-0.6/+1.0	-0.6/+1.0	-0.6/+1.0	-0.6/+1.0	-1.2/+1.2	1.45

How To Order

WFA4002-X-Y-Z

X: Frequency in GHz
Y: Attenuation in dB
Z: Connector type

Examples:
To order an attenuator,
DC~40GHz, 2.92mm male to 2.92mm female, 3dB attenuation,
specify WFA4002-40-3-K.

Connector naming rules:

K - 2.92mm
KK - Outline A
K - (Outline B -1 ~ 30dB, Outline D - 0dB, Outline H - 40dB, Outline I -50dB)
KFKF - Outline C
P - SMP (Outline E)
G - SSMP (Outline F)
A - SSMA (Outline G)