

## Precision Fixed Attenuator BW-K1-2W44+

500 2 W 1 dB DC to 40 GHz 2.92mm-Male to 2.92mm-Female

#### THE BIG DEAL

- · Extremely Wideband, DC to 40 GHz
- Excellent VSWR, 1.20:1 Typ.
- Outstanding Attenuation Flatness
- Can interface with SMA, K & 3.5mm Connectors

#### **APPLICATIONS**

- Impedance Matching
- Instrumentation
- Test Setups



Generic photo used for illustration purposes only

Model No.	BW-K1-2W44+	
Case Style	FF1653	
Connectors	2.92mm-Male to 2.92mm-Female	

+RoHS Compliant The +Suffix identifies RoHS Compliance. ur website for methodologies and qualificatior

#### **PRODUCT OVERVIEW**

The BW-Kx-2W44+ series of precision fixed attenuators achieves extremely wide frequency range with excellent flatness of attenuation. Available in a variety of attention values for different requirements, these units support a broad range of system and testing applications. Precise performance, excellent VSWR (1.2:1 typ.) and rugged construction make these models ideal solutions for systems requiring precise attenuation across very wide frequency range.

#### **KEY FEATURES**

Feature	Advantages	
Extremely Wideband, DC to 40 GHz	Ideal for an exceptionally wide variety of lab and system applications up to millimeter wave bands.	
Excellent VSWR, 1.20:1 Typ.	Efficient power utilization with minimal signal power reflected back to source.	
Outstanding Attenuation Flatness	Provides precise, consistent attenuation across the entire frequency band, ideal for broadband and multi-band usage.	
Passivated Stainless Steel Connectors	Rugged construction withstands harsh environmental conditions for high reliability and long life of use.	



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#### **ELECTRICAL SPECIFICATIONS AT +25°C**

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		40	GHz
	DC - 40		1		
Attenuation <sup>1</sup>	DC - 26.5	0.5		1.5	dB
	26.5 - 40	0.5		1.8	
	DC - 18		1.12	1.3	
VSWR	18 - 26.5		1.18	1.4	:1
	26.5 - 40		1.35	1.5	
Input Power <sup>2</sup>	DC - 40			2	W

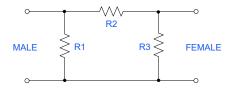
<sup>1.</sup> At +25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004 dB/dB/°C Typ.

#### **ABSOLUTE MAXIMUM RATINGS**

Parameter	Ratings
Operating Temperature <sup>3</sup>	-55°C to +100°C
Storage Temperature	-55°C to +100°C

Permanent damage may occur if any of these limits are exceeded.

#### **ELECTRICAL SCHEMATIC**



<sup>2.</sup> Max. power at +25°C ambient, derate linearly to 0.575 W at +100°C.

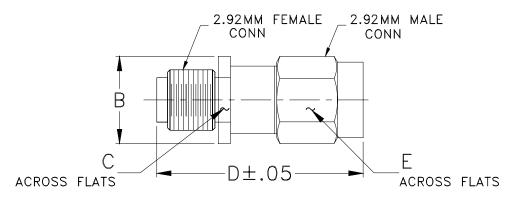
<sup>3.</sup> With mated connectors. Unmated, +85°C Max.



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### **OUTLINE DRAWING**



### OUTLINE DIMENSIONS (Inch )

wt	Ε	D	С	В
grams	.312	.88	.312	.36
4.73	7.92	22,35	7.92	9.14

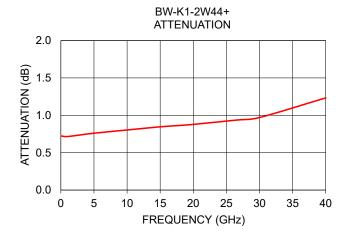


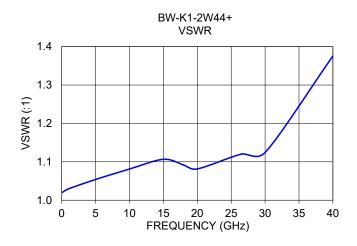
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#### **TYPICAL PERFORMANCE DATA AND CHARTS**

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	0.72	1.02
1.00	0.72	1.03
5.00	0.76	1.05
10.00	0.80	1.08
15.00	0.85	1.11
18.00	0.86	1.09
20.00	0.88	1.08
26.50	0.94	1.12
30.00	0.97	1.12
40.00	1.23	1.38





Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

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