

Precision Fixed Attenuator **BW-K5-2W44+**

500 2 W 5 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



Generic photo used for illustration purposes only

Model No.	BW-K5-2W44+	
Case Style	FF1653	
Connectors	2.92mm-Male to 2.92mm-Female	

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our website for methodologies and qualification

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups

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.	

REV. A ECO-024604 BW-K5-2W44+ MCI NY





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ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		40	GHz
Attenuation ¹	DC - 40		5		dB
	DC - 26.5	4.25		5.75	
	26.5 - 37	4.4		5.9	
	37 - 40	4.5		6.2	
	DC - 18		1.15	1.3	
VSWR	18 - 26.5		1.20	1.4	:1
	26.5 - 40		1.35	1.5	
Input Power ²	DC - 40			2	W

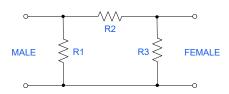
 $^{1.\} At + 25^{\circ}C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004\ dB/dB/^{\circ}C\ Typ.$

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature ³	-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



^{2.} Max. power at +25°C ambient, derate linearly to 0.575 W at +100°C.

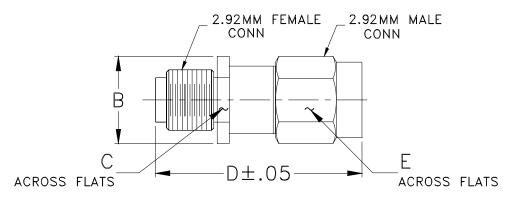
^{3.} With mated connectors. Unmated, +85°C Max.



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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

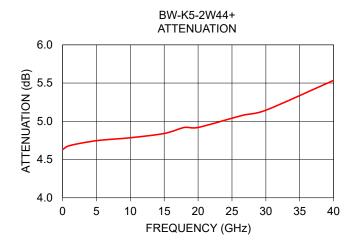


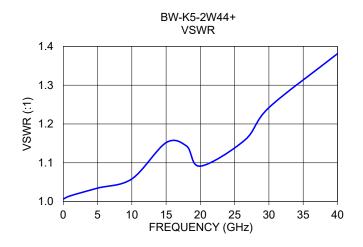
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TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	4.63	1.01
1.00	4.68	1.01
5.00	4.75	1.03
10.00	4.79	1.06
15.00	4.84	1.15
18.00	4.92	1.14
20.00	4.92	1.09
26.50	5.08	1.16
30.00	5.15	1.24
40.00	5.54	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.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.

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