



COAXIAL

Precision Fixed Attenuator **BW-KM10-2W44+**

50Ω 2 W 10 dB DC to 40 GHz 2.92mm-Male

THE BIG DEAL

- Extremely Wideband, DC to 40 GHz
- Excellent VSWR, 1.10:1 Typ.
- Outstanding Attenuation Flatness
- 2.92mm Male Connectors



Generic photo used for illustration purposes only

Model No.	BW-KM10-2W44+
Case Style	FF2607
Connectors	2.92mm-Male

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups

+RoHS Compliant

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

PRODUCT OVERVIEW

The BW-KMx-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 (1.10:1 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, 1.10:1 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-024535
BW-KM10-2W44+
MCL NY
250214





Precision Fixed Attenuator **BW-KM10-2W44+**

50Ω 2 W 10 dB DC to 40 GHz 2.92mm-Male

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		40	GHz
Attenuation ¹	DC - 40		10		dB
	DC - 26.5	9		11	
	26.5 - 40	8		12	
VSWR	DC - 18		1.0	1.4	:1
	18 - 26.5		1.1	1.5	
	26.5 - 40		1.1	1.5	
Input Power ²	DC - 40			2	W

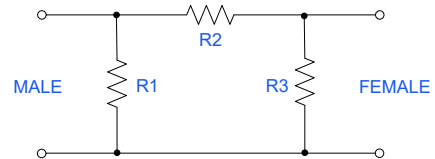
1. At +25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004 dB/dB/°C Typ.
 2. Max. power at +25°C ambient, derate linearly to 0.65 W at +100°C.

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

ELECTRICAL SCHEMATIC

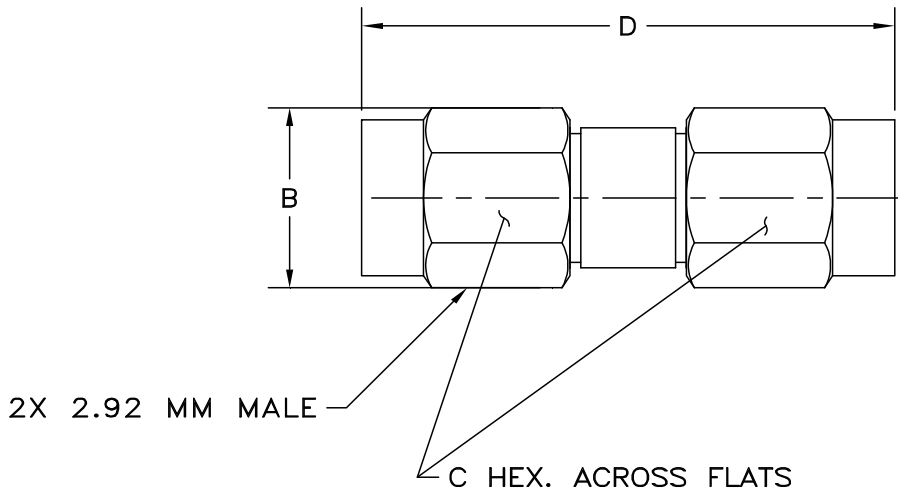




Precision Fixed Attenuator **BW-KM10-2W44+**

50Ω 2 W 10 dB DC to 40 GHz 2.92mm-Male

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E	wt
--	.36	.312	.91	--	grams
--	9.14	7.92	23.11	--	6.5 Max.



COAXIAL

Precision Fixed Attenuator **BW-KM10-2W44+**

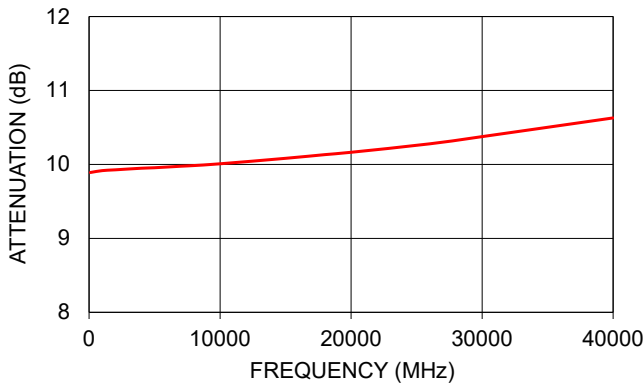
Mini-Circuits

50Ω 2 W 10 dB DC to 40 GHz 2.92mm-Male

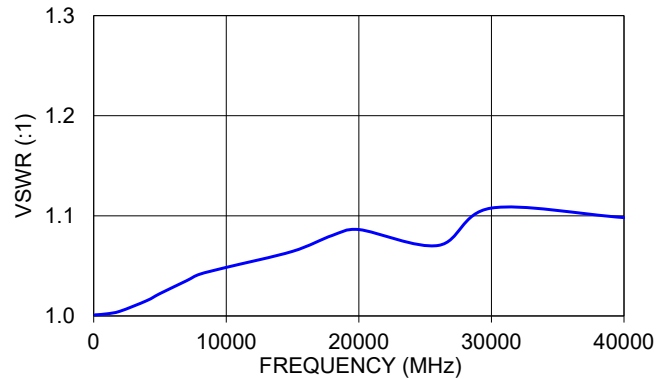
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	9.89	1.00
1000	9.92	1.00
2000	9.93	1.00
4000	9.95	1.02
5000	9.96	1.02
7000	9.98	1.04
8000	9.98	1.04
10000	10.01	1.05
15000	10.08	1.06
18000	10.13	1.08
20000	10.16	1.09
26000	10.28	1.07
30000	10.38	1.11
40000	10.63	1.10

BW-KM10-2W44+
ATTENUATION



BW-KM10-2W44+
VSWR



NOTES

- A. 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.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

