Coaxial Precision Fixed Attenuator BW-Kx-2W44+ Series

3, 6, 10 and 20 dB 50Ω 2W DC to 40 GHz

The Big Deal

- Extremely wideband, DC to 40 GHz
- •K 2.92 mm Female 2.92 mm Male
- Outstanding attenuation flatness
- Excellent VSWR, 1.20 typ.



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 applications.			
Excellent VSWR, 1.20 typ.	Efficient power utilization with low 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.			

- 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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial **Precision Fixed Attenuator**

DC to 40 GHz 2W 3dB

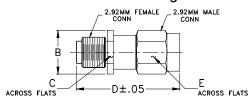
Maximum Ratings

50Ω

Operating Temperature	-55°C to 100°C**			
Storage Temperature	-55°C to 100°C			
**with mated connectors. Unmated, 85°C max.				

ent damage may occur if any of th

Outline Drawing



Outline Dimensions (inch)

wt	Е	D	С	В
grams	.312	.88	.312	.36
4.73	7.92	22.35	7.92	9.14

Features

- DC to 40 GHz
- precise attenuation
- excellent VSWR, 1.20 typ.
- · passivated stainless steel connectors
- can interface with SMA, K & 3.55mm connectors

Applications

matching

- instrumentation
- test set-ups





Generic photo used for illustration purposes only CASE STYLE: FE1653

Connectors Model 2.92mm Female - 2.92 Male BW-K3-2W44+

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

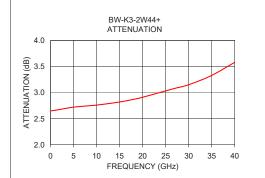
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	40	GHz
Attenuation ¹	DC - 40	_	3	_	
	DC - 265	2.5	_	3.5	dB
	26.5 - 40	2.2	_	3.8	
	DC - 18	—	1.06	1.3	
VSWR	18 - 26.5	_	1.10	1.4	:1
	26.5 - 40	_	1.23	1.5	
Input Power ²	DC - 40	_	_	2	W

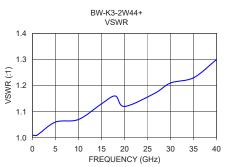
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ. 2

2.	Max.	power	at 25°C	; ambient,	derate	linearly to	0.575W	at 100	°C.	

Typical Performance Data

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.40	0.05	4.04
0.10 1.00	2.65 2.66	1.01 1.01
5.00	2.72	1.06
10.00	2.76	1.07
15.00	2.82	1.13
18.00	2.87	1.16
20.00	2.91	1.12
26.50	3.07	1.17
30.00	3.15	1.21
40.00	3.58	1.30





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Simplified Electrical Schematic