Coaxial

Precision Fixed Attenuator BW-Kx-2W44+ Series

50Ω 2W 3, 6, 10 and 20 dB 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.

CASE STYLE: FF1653

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.

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Precision Fixed Attenuator

BW-K6-2W44+

50Ω 2W 6dB DC to 40 GHz

Generic photo used for illustration purposes only

CASE STYLE: FF1653

Connectors	Model
2.92mm Female - 2.92 Male	BW-K6-2W44+

+RoHS Compliant

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

Maximum Ratings

Operating Temperature	-55°C to 100°C**
Storage Temperature	-55°C to 100°C

**with mated connectors. Unmated, 85°C max.
Permanent damage may occur if any of these limits are exceeded.

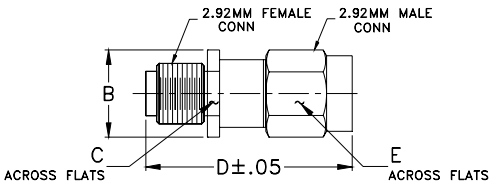
Features

- 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

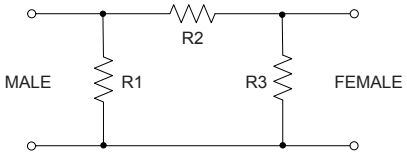
Outline Drawing



Outline Dimensions (inch / mm)

B	C	D	E	wt
.36	.312	.88	.312	grams
9.14	7.92	22.35	7.92	4.73

Simplified Electrical Schematic



Electrical Specifications at 25°C

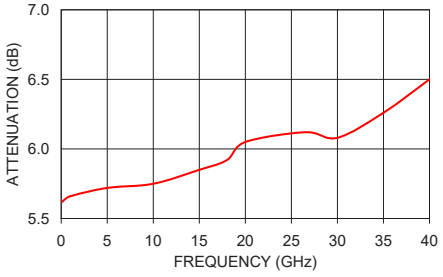
Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	40	GHz
Attenuation[1]	DC - 40	—	6	—	
	DC - 26.5	5.5	—	6.5	dB
	26.5 - 37	5.2	—	6.8	
	37 - 40	5.2	—	7.2	
VSWR	DC - 18	—	1.06	1.3	
	18 - 26.5	—	1.09	1.4	:1
	26.5 - 40	—	1.50	1.5	
Input Power[2]	DC - 40	—	—	2	W

1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
2. Max. power at 25°C ambient, derate linearly to 0.575W at 100°C.

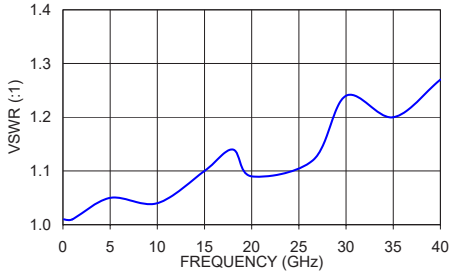
Typical Performance Data

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.10	5.62	1.01
1.00	5.66	1.01
5.00	5.72	1.05
10.00	5.75	1.04
15.00	5.85	1.10
18.00	5.92	1.14
20.00	6.05	1.09
26.50	6.12	1.12
30.00	6.08	1.24
40.00	6.50	1.27

BW-K6-2W44+
ATTENUATION



BW-K6-2W44+
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.
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