



KEY FEATURES

- 40 to 60 GHz
- WR19 Waveguide with Round Flange
- Excellent VSWR, 1.1:1 Typ.
- 500 mW Power Handling

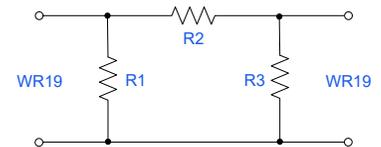
APPLICATIONS

- Optical Communications
- Test & Measurement
- High-Speed Data Systems
- Instrumentation
- Precision Measurements



Generic photo used for illustration purposes only

FUNCTIONAL DIAGRAM



PRODUCT OVERVIEW

The Mini-Circuits catalog model WR19-ATT-6+ is a precision fixed 6 dB 500 mW attenuator. WR19-ATT-6+ operates over an extremely wide frequency range with excellent VSWR and supports a broad range of system and testing applications. Precise performance, excellent VSWR and wide bandwidth make this model an ideal solution for systems requiring accurate attenuation across a very wide frequency range.

ELECTRICAL SPECIFICATIONS AT +25° C, Z₀ = 50 Ω

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	40	-	60	GHz
Attenuation	40-44	3.0	5.4	9.0	dB
	44-48	3.0	5.7	9.0	
	48-52	3.0	6.0	9.0	
	52-56	3.0	6.5	9.0	
	56-60	3.0	7.1	9.0	
VSWR	40-44	-	1.1	1.7	:1
	44-48	-	1.1	1.7	
	48-52	-	1.1	1.7	
	52-56	-	1.1	1.7	
	56-60	-	1.1	1.7	

ABSOLUTE MAXIMUM RATINGS¹

Parameter	Ratings
Operating Case Temperature	+10 °C to +40 °C
Storage Temperature	-40 °C to +85 °C

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



WAVEGUIDE

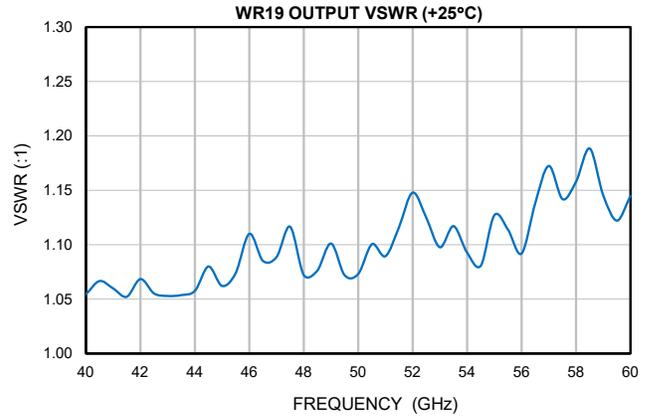
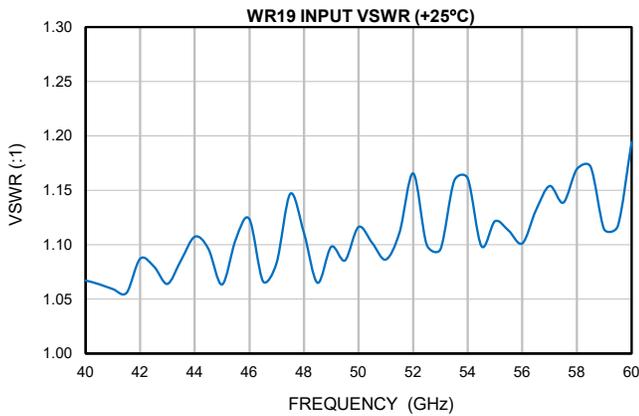
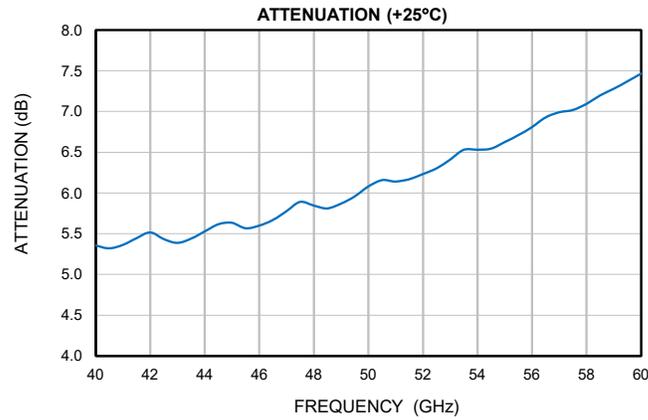
Fixed Attenuator

WR19-ATT-6+

Mini-Circuits

50Ω 0.5 W 6 dB 40 to 60 GHz WR19 to WR19 Flange

TYPICAL PERFORMANCE GRAPHS





WAVEGUIDE

Fixed Attenuator

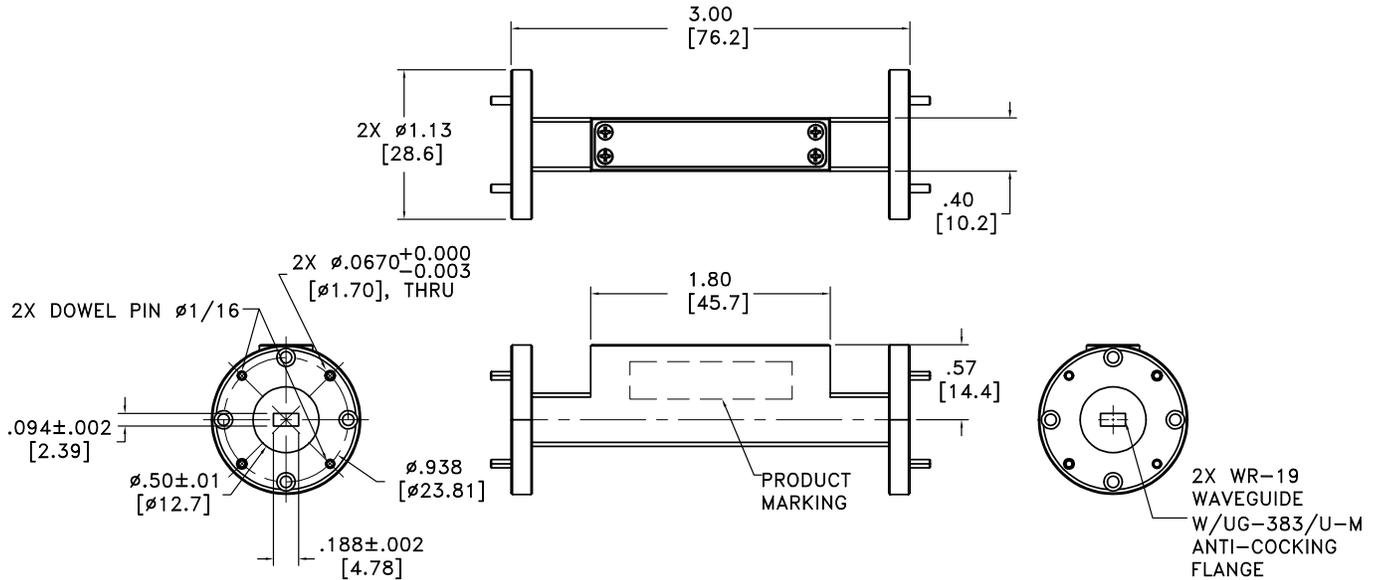
WR19-ATT-6+

50Ω 0.5 W 6 dB 40 to 60 GHz WR19 to WR19 Flange

COAXIAL CONNECTIONS

Description	RF1 PORT	RF2 PORT
Connector Type	WR19 Flange	WR19 Flange
Orientation	Straight	Straight

CASE STYLE DRAWING



Weight: 121.90 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

PRODUCT MARKING*: WR-19-ATT-6+

*Marking may contain other features or characters for internal lot control.





WAVEGUIDE

Fixed Attenuator

WR19-ATT-6+

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50Ω 0.5 W 6 dB 40 to 60 GHz WR19 to WR19 Flange

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

Performance Data & Graphs	Data Graphs S-Parameter (S2P Files) Data Set (.zip file)
Case Style	UW3808
RoHS Status	Compliant
Environmental Ratings	ENV145

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-Circuits' website at www.minicircuits.com/terms/viewterm.html

