



WAVEGUIDE

Fixed Attenuator

WR28-ATT-3+

50 Ω 0.75 W 3 dB 26.5 to 40 GHz WR28 to WR28 Flange

KEY FEATURES

- 26.5 to 40 GHz
- WR28 Waveguide with Square Flange
- Excellent VSWR, 1.1:1 Typ.
- 750 mW Power Handling

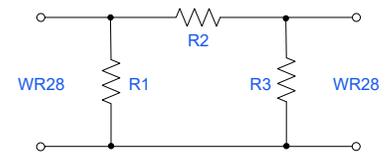


Generic photo used for illustration purposes only

APPLICATIONS

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

FUNCTIONAL DIAGRAM



PRODUCT OVERVIEW

The Mini-Circuits catalog model WR28-ATT-3+ is a precision fixed 3 dB 750 mW attenuator. WR28-ATT-3+ 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	-	26.5	-	40	GHz
Attenuation	26.5-30	1.5	3.3	4.5	dB
	30-33	1.5	3.4	4.5	
	33-36	1.5	3.5	4.5	
	36-38	1.5	3.7	4.5	
	38-40	1.5	3.9	4.5	
VSWR	26.5-30	-	1.1	1.7	:1
	30-33	-	1.1	1.7	
	33-36	-	1.1	1.7	
	36-38	-	1.1	1.7	
	38-40	-	1.1	1.7	

ABSOLUTE MAXIMUM RATINGS¹

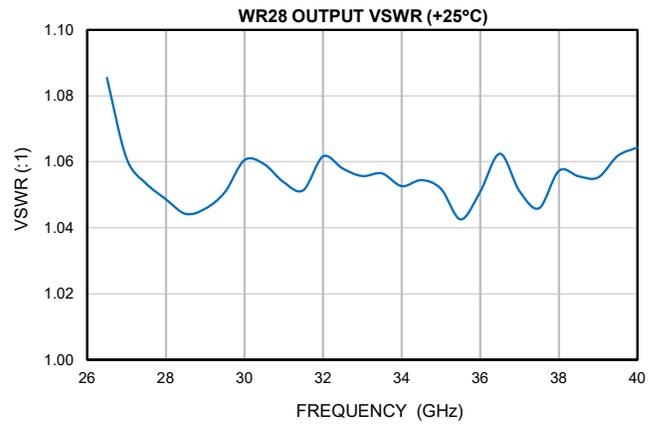
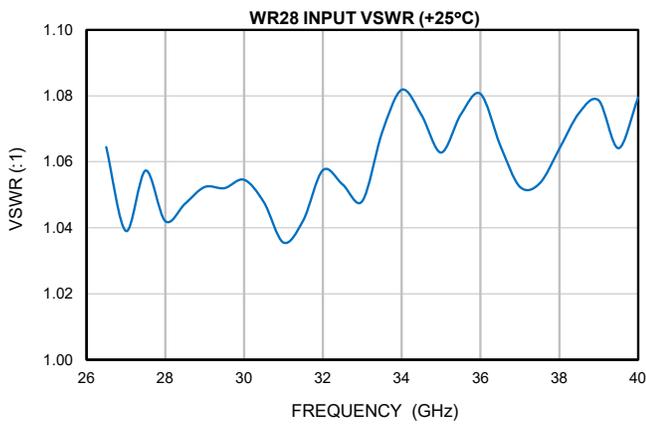
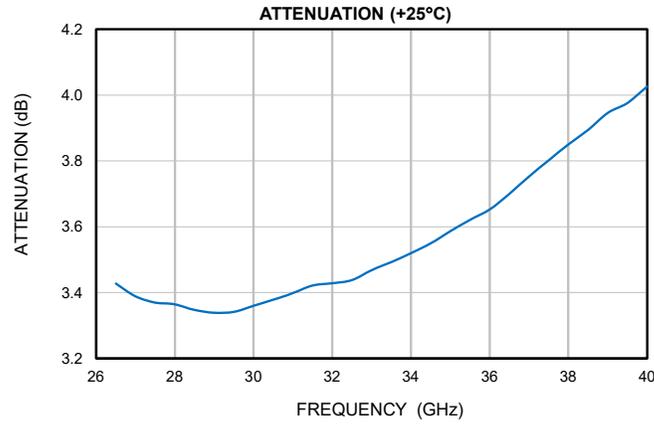
Parameter	Ratings
Operating Case Temperature	+10 °C to +40 °C
Storage Temperature	-40 °C to +85 °C

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





TYPICAL PERFORMANCE GRAPHS





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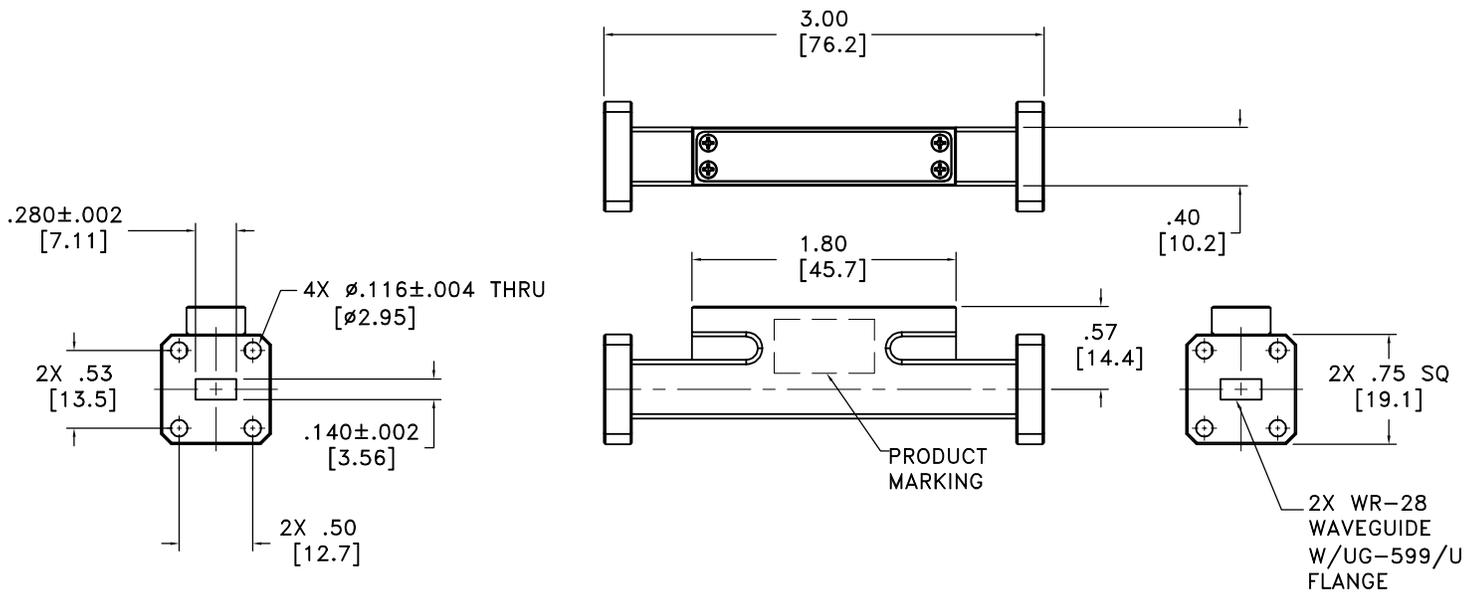
Mini-Circuits

50Ω 0.75 W 3 dB 26.5 to 40 GHz WR28 to WR28 Flange

COAXIAL CONNECTIONS

Description	RF1 PORT	RF2 PORT
Connector Type	WR28 Flange	WR28 Flange
Orientation	Straight	Straight

CASE STYLE DRAWING



Weight: 96.388 grams

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

PRODUCT MARKING*: WR28-ATT-3+

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





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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

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Performance Data & Graphs	Data Graphs S-Parameter (S2P Files) Data Set (.zip file)
Case Style	UW3808-2
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

