

50Ω

DC to 6 GHz

## The Big Deal

- Wideband, DC to 6 GHz
- Excellent return loss, 35 dB typ. up to 6 GHz
- Input power handling up to 1W



CASE STYLE: LL561

## Product Overview

Mini-Circuits' ANNE-50RP+ is wideband 50Ω termination capable of absorbing signals up to 1W from DC to 6 GHz. It provides excellent return loss across its entire operating frequency range, effectively dissipating signal power with minimal reflections. This model has a SMA-Male Reverse Polarity connector. The unit features rugged construction for a long life of use and measuring only 0.58" (l) x 0.37" (dia.).

## Key Features

Feature	Advantages
Wideband, DC to 6 GHz	Extremely wide frequency range provides application flexibility and makes this model ideal for broad-band and multi-band use.
Good return loss 35 dB typ. up to 6 GHz	Good return loss minimizes signal reflections across multiple-decade frequency range.
Power handling up to 1W	ANNE-50RP+ meets a wide range of system power requirements in a small device size.
Wide operating temperature range, -55°C to +100°C	Withstands tough operating conditions and is suitable for use near high power componentry where heat rise is common.

**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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

# Coaxial Termination SMA-MRP

## ANNE-50RP+

50Ω DC to 6 GHz

### Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

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

### Features

- Wideband coverage, DC to 6 GHz
- Return loss, 35 dB typ. up to 6 GHz
- Rugged construction

### Applications

- Cellular communications
- Satellite communications
- Test set-up
- Defense & radar

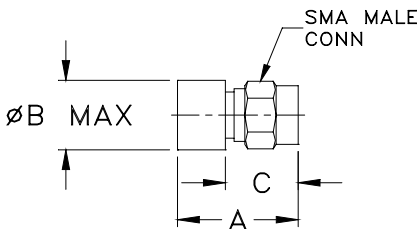


CASE STYLE: LL561  
Connector Model  
SMA-MRP ANNE-50RP+

#### +RoHS Compliant

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

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	Wt.
.58	.37	.35	grams
14.73	9.40	8.89	4.0

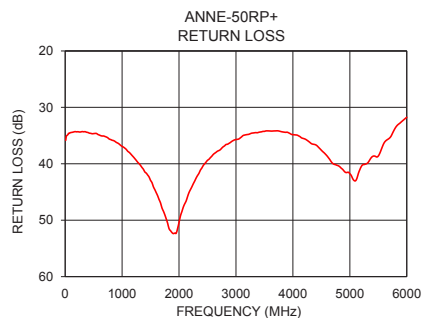
### Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range	DC-6	-	-	-	GHz
Impedance	50	-	-	-	Ohms
Return Loss	DC-3	23	35	-	dB
	3-6	20	35	-	
Input Power <sup>1</sup>	DC-6	-	-	1.0	W

1. At 50°C, derate linearly to 350mW at 100°C.

### Typical Performance Data

Frequency (MHz)	Return Loss (dB)
10	35.85
100	34.46
200	34.34
400	34.45
500	34.65
750	35.40
1000	36.92
1500	42.95
2000	50.40
2500	39.39
2750	37.23
3000	35.71
3250	34.68
3500	34.26
4000	34.84
4500	37.60
5000	41.76
5500	38.62
5750	34.58
6000	31.76



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