50Ω 1.85 mm DC to 65 GHz

The Big Deal

- Ultra-wideband, DC to 65 GHz
- Excellent return loss, 22 dB typ. up to 40 GHz;
 20 dB typ. up to 65 GHz
- Input power handling up to 1W
- Mates with 2.4mm and V connectors



Product Overview

Mini-Circuits' ANNE-50E+ is an ultra-wideband 50Ω termination capable of absorbing signals up to 1W from DC to 65 GHz. It provides excellent return loss across its entire operating frequency range, effectively dissipating signal power with minimal reflections. This model has a 1.85mm-male connector, mechanically compatible with 2.4mm-female and V female connectors. The unit features rugged construction for a long life of use and comes in a passivated stainless steel case measuring only 0.69"(I) x 0.36" (dia.).

Key Features

Feature	Advantages
Ultra-wideband, DC to 65 GHz	Extremely wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use.
Good return loss: • 26 dB up to 18 GHz • 22 dB up to 40 GHz • 20 dB up to 65 GHz	Good return loss minimizes signal reflections across multiple-decade frequency range.
1.85 mm connector mates with 2.4 mm and V connectors	Provides flexible connection options, avoiding the need for extra adapters.
Power handling up to 1W	ANNE-50E+ meets a wide range of system power requirements in a small device size.
Wide operating temperature range, -55 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-Circuit 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

1.85 mm

ANNE-50E+

DC to 65 GHz 50Ω

Maximum Ratings

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

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

Features

- wideband coverage, DC to 65 GHz
- return loss, 22 dB typ. up to 40 GHz and 20 dB typ. up to 65 GHz

• test and measurement equipment

· Q and V band communication links

rugged construction

· defense and aerospace · 5G applications

Applications

test labs

mechanically compatible with 2.4 mm connectors

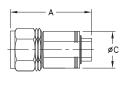
CASE STYLE: LL2587

Connector Model 1.85 mm-M ANNE-50E+

+RoHS Compliant

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

Outline Drawing





	•				
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	65	GHz
Impedance			50		Ohms
Return Loss	DC - 18	20.8	26	_	
	18 -40	17.7	22	_	dB
	40 - 65	14.7	20		
Input Power ¹	DC - 65	_	_	1	W

Electrical Specifications at 25°C

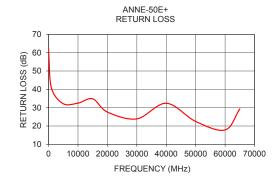
1. At 25°C, derate linearly to 100 mW at 100°C.

Outline Dimensions (inch)

wt	Е	D	С	В	Α
grams	.36	.281	.31	.312	.69
4.6	9.14	7.14	7.9	7.92	17.5

Typical Performance Data

Frequency (MHz)	Return Loss (dB)	
10	62.69	
100	58.55	
1000	40.59	
5000	32.14	
10000	32.46	
15000	34.82	
20000	27.60	
30000	23.88	
40000	32.40	
50000	22.45	
60000	17.83	
65000	29.36	



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