ZEQ-5-292-S+

 50Ω 1300 to 2900 MHz

The Big Deal

- Good matching
- Minimal deviation in the attenuation slope ± 0.4 dB
- Connectorized package



CASE STYLE: H16

Product Overview

ZEQ-5-292-S+ is a 50Ω coaxial slope Equalizer. This model offers excellent performance in the "L and S band" frequency range of 1300-2900 MHz with minimal deviation in the attenuation slope.

Key Features

Feature	Advantages		
Minimal deviation in the attenuation slope, ± 0.4dB	Provide low signal distortion over the passband. Can be used in satellite system.		
Good matching in the passband	Good 50Ω matching between input and output.		
Connectorized package	This connectorized package is easy to interface with other devices and well suits for test setups.		

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

Slope Equalizer

ZEQ-5-292-S+

50Ω 1300 to 2900 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Input power	+20 dBm

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

Coaxial Connections

Input	SMA Male
Output	SMA Female

Applications

Features

- · Loss compensation
- · Satellite L band applications

• Good matching in passband

· Connectorized package

Minimal deviation in the attenuation slope ± 0.4 dB

CASE STYLE: H16

Connectors	Model
SMA-M/F	ZEQ-5-292-S+

+RoHS Compliant

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

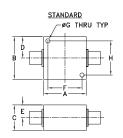
Electrical Specifications at 25°C

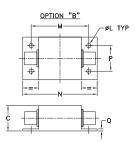
Parameter	Condition	Min.	Тур.	Max.	Units
Frequency Range	-	1300	-	2900	MHz
Insertion Loss	1300 MHz	4.8	-	6.2	
	2100 MHz	1.6	-	3.1	dB
	2900 MHz	0.2	-	1.5	
VSWR	1300-2900 MHz	-	1.1	1.6	:1

Typical Performance Data at 25°C

71						
Frequency (MHz)	Insertion Loss (dB)	VSWR				
1300	5.39	1.20				
1400	5.03	1.20				
1500	4.65	1.19				
1600	4.26	1.18				
1700	3.87	1.17				
1800	3.47	1.15				
1900	3.08	1.14				
2000	2.70	1.12				
2100	2.34	1.10				
2200	2.02	1.08				
2300	1.72	1.07				
2400	1.46	1.06				
2500	1.24	1.06				
2700	0.89	1.07				
2900	0.68					

Outline Drawing

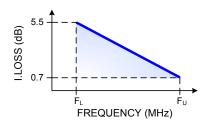




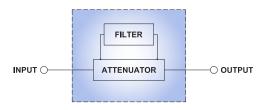
Outline Dimensions (inch)

	1.25	.75	.63	.38	F 1.000 25.40	.125	1.000	
J 	K 	.125	1.688	2.18	.750	.06	grams	

Typical Frequency Response



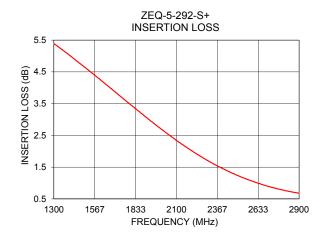
Simplified Functional Schematic

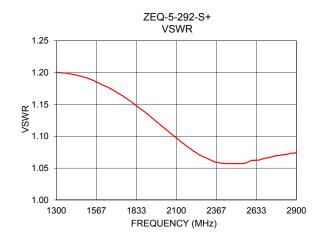


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