VEQY-8-63+

 50Ω 8dB DC to 6 GHz

The Big Deal

- Excellent VSWR, 1.2:1 typ.
- Wide bandwidth, DC 6 GHz
- · Connectorized package



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

Product Overview

Mini-Circuits' VEQY-8-63+ is an absorptive Gain Equalizer fabricated using highly repetitive GaAs IPD* MMIC process incorporating resistors, capacitors and inductors having negative insertion loss slope. VEQY-8-63+ has a nominal attenuation slope of 8 dB.

Key Features

Feature	Advantages	
Negative Insertion Loss Slope vs. Frequency	Useful for compensating negative gain slope of amplifiers, receivers, transmitters to achieve flat gain versus frequency.	
Wideband operation, DC to 6 GHz	Supports a wide array of applications including wireless cellular, microwave communications, satellite, defense and aerospace, medical broadband and optic applications.	
Excellent Power Handling Capability 31 dBm	Enables its use at the output of a variety of amplifiers	
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.	

^{*}GaAs IPD (Gallium Arsenide Integrated Passive Device)

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 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

Gain Equalizer

50Q 8dB DC to 6 GHz

VEQY-8-63+



Generic photo used for illustration purposes only CASE STYLE: FF704

Connectors Model VEQY-8-63+ SMA

Electrical Specifications at 25°C

Licetifical opecifications at 25 o					
Parameter	Condition (GHz)	Min.	Тур.	Max.	Units
Frequency Range		DC	_	6	GHz
Insertion Loss	0.01	8.2	8.6	9.0	
	1	_	7.5	_	
	2	_	5.0	_	
	3	2.5	2.9	3.4	dB
	4	_	1.6	_	
	5	_	0.9	_	
	6	0.2	0.6	1.1	
VSWR	0.01 - 1	_	1.13	_	
	1 - 2	_	1.18	_	
	2 - 3	_	1.21	_	:1
	3 - 4	_	1.21	_	
	4 - 5	_	1.15	_	
	F 6		1.00		

Absolute Maximum Ratings¹

_		
Parameter	Ratings	
Operating Temperature	-40°C to 85°C	
Storage Temperature	-55°C to 100°C	
RF Power	31 dBm	

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

ESD rating

Human Body Model (HBM): Class 2 (Pass 2000V) in accordance with ANSI/ESD STM 5.1 - 2001 Machine.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		Input	Output
10	8.60	1.13	1.13
50	8.60	1.13	1.13
100	8.61	1.13	1.13
500	8.33	1.12	1.12
1000	7.40	1.13	1.11
1300	6.69	1.14	1.12
1500	6.19	1.15	1.12
1800	5.43	1.17	1.12
2000	4.94	1.18	1.12
2500	3.81	1.20	1.12
2800	3.23	1.21	1.11
3000	2.88	1.21	1.10
3500	2.14	1.19	1.07
4000	1.57	1.15	1.04
4500	1.15	1.09	1.02
5000	0.86	1.02	1.01
5500	0.69	1.03	1.01
6000	0.61	1.06	1.02

Applications Communications

Features

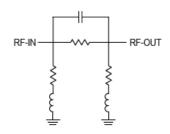
• 8 dB Slope

• Wide Bandwidth, DC-6 GHz

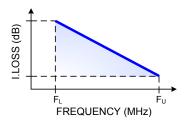
• Excellent VSWR, 1.2:1 typ. · Connectorized package

- Radar
- Defense

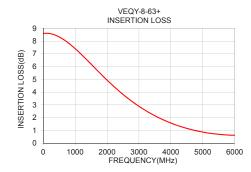
Simplified schematic

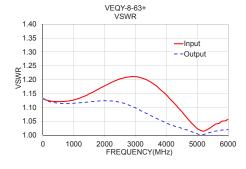


Typical Frequency Response



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





- 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.

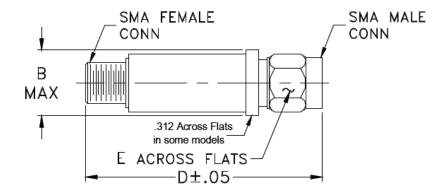
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limiter many 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

Coaxial Connections

PORT - 1	SMA-Female
PORT - 2	SMA-Male

Outline Drawing



Outline Dimensions (inch mm)

В	D	Ε	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

Note: Please refer to case style drawing for details

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 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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

 $\frac{\text{Mini-Circuits}}{\text{VEQY-8-63+}}$