

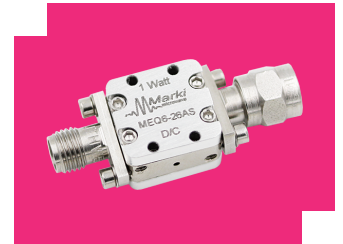
MEQ6-26AS

Passive GaAs MMIC 26.5 GHz Equalizer

DEVICE OVERVIEW

General Description

The MEQ6-26AS passive MMIC equalizer is an ideal solution for compensating for low pass filtering effects in RF/microwave and high speed digital systems. This equalizer provides positive slope from DC to 26.5 GHz with a DC attenuation value of 6 dB and a 50-ohm match maintained over the entire operating range. GaAs MMIC technology provides consistent unit-to-unit performance in a small, low cost form factor. Contact the factory for connectorized versions of our other MEQ products.



[Download s-parameters here](#)

Features

- DC attenuation of 6 dB
- Typical Insertion Loss 0.9 dB at 26.5 GHz
- Return loss: typical 20 dB over the entire band
- Bidirectional

Applications

- RF Transceivers
- High-Speed Data
- Telecom
- Cable Loss Compensation
- Amplifier Compensation

Functional Block Diagram



Part Ordering Options

Part Number	Description	Package	Connectors	Green Status	Product Lifecycle	Export Classification
MEQ6-26AS	Passive GaAs MMIC 26.5 GHz Equalizer	S	<u>Standard</u>	REACH RoHS	Released	EAR99

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Revision History

Revision Code	Revision Date	Comment
-	2019-08-01	Datasheet Initial Release

Specifications

Absolute Maximum Ratings

The Absolute Maximum Ratings indicate limits beyond which damage may occur to the device. If these limits are exceeded, the device may be inoperable or have a reduced lifetime.

Parameter	Maximum Rating	Unit
Maximum Operating Temperature	100	°C
Maximum Storage Temperature	125	°C
Minimum Operating Temperature	-55	°C
Minimum Storage Temperature	-65	°C
Port 1 DC Current	40	mA
Port 2 DC Current	40	mA
Power Handling, at any Port	30	dBm

Package Information

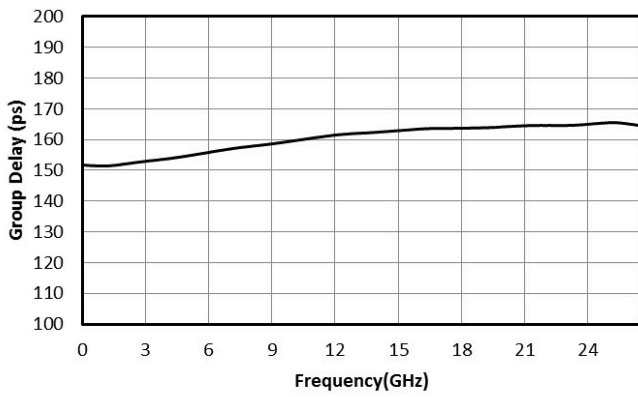
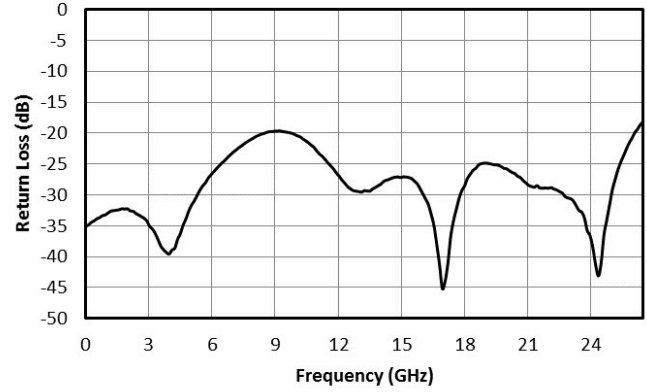
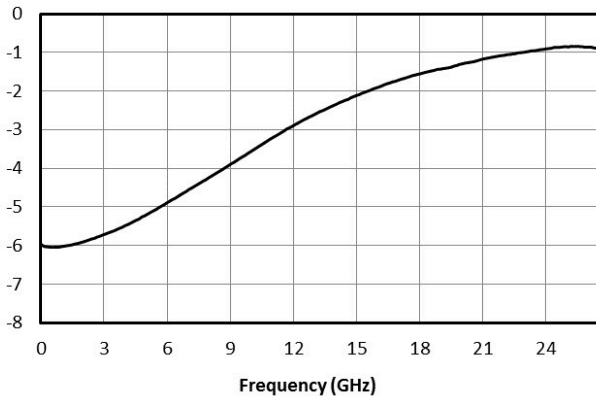
Parameter	Details	Rating
ESD	250 to < 500 Volts	HBM Class 1A
Weight	Package name: S	11.5g
Dimensions	-	14.22 x 13.21 mm

Electrical Specifications

The electrical specifications apply at TA=+25°C in a 50Ω system. Typical data shown is for the equalizer in a S package with a sine wave input applied to port 1.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Impedance	-	-	-	-	50	-	Ω
Insertion Loss	-	10	10	-	3.5	-	dB
Insertion Loss	-	18	18	-	1.5	-	dB
Insertion Loss	-	26.5	26.5	-	0.9	2.5	dB
Insertion Loss at DC	-	0	0	-	6	-	dB
Return Loss	-	0	26.5	16	20	-	dB

Typical Performance Plots



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