

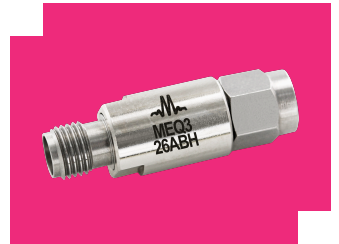
# MEQ3-26ABH

## Passive GaAs MMIC 3 dB DC to 26.5 GHz Equalizer

### DEVICE OVERVIEW

#### General Description

The MEQ3-26ABH 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 3 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. The MEQ3-26ABH is available in a SMA connectorized housing. For wire-bondable die, refer to MEQ3-30ACH.



[Download s-parameters here](#)

#### Features

- DC Attenuation, 3 dB Typical
- Insertion Loss at 26.5 GHz, 0.9 dB Typical
- Return Loss, 26 dB Typical
- 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
MEQ3-26ABH	Passive GaAs MMIC 3 dB DC to 26.5 GHz Equalizer	BH	<u>Standard</u>	REACH RoHS	Released	EAR99

## MEQ3-26ABH

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#### Revision History

Revision Code	Revision Date	Comment
-	2026-06-04	Initial Release

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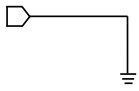
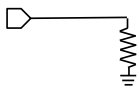
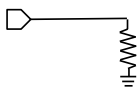
### Port Configuration and Functions

#### Port Diagram

A top-down view of the MEQ3-26ABH package outline drawing is shown below.



#### Port Functions

Port	Function	Connector Type	Description	DC Equivalent Circuit
GND	Ground	-	BH package ground is provided through metal housing and outer coax conductor.	
Port 1	Input/Output	SMAF	Port 1 is DC connected to ground through a resistor. DC block is required if voltage present.	
Port 2	Input/Output	SMAM	Port 2 is DC connected to ground through a resistor. DC block is required if voltage present.	

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### 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	35	mA
Port 2 DC Current	35	mA
Power Handling, at any Port	30	dBm

#### Package Information

Parameter	Details	Rating
ESD	250 to < 500 Volts	HBM Class 1A
Weight	Package name: BH	9.2g
Dimensions	-	30.1 x 9.5 mm

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### Electrical Specifications

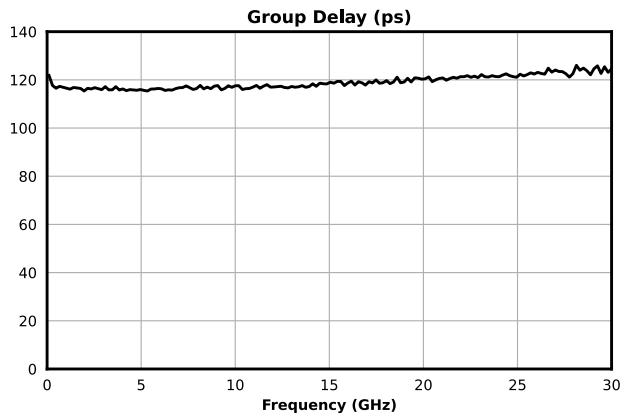
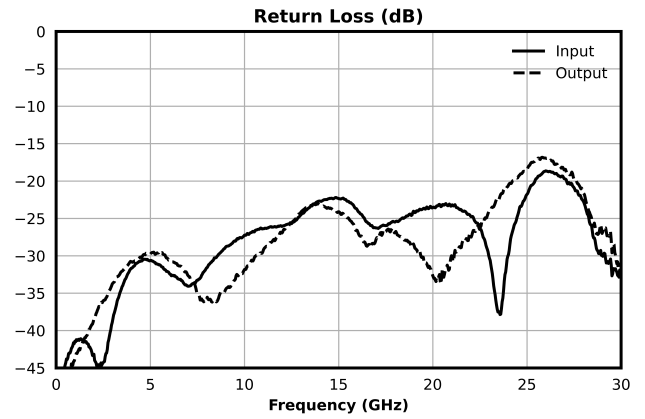
The electrical specifications apply at TA=+25°C in a 50Ω system. Typical data shown is for the equalizer in a BH package with a sine wave input applied to port 1. Min and Max limits are guaranteed at TA=+25°C.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Insertion Loss at DC	Temp = 25°C	0	0	-	3.0	-	dB
Insertion Loss	Temp = 25°C	13.25	13.25	-	2.5	-	dB
Insertion Loss	Temp = 25°C	26.5	26.5	-	1.1	-	dB
Equalization Value	Temp = 25°C	0	26.5	-	2.0	-	dB
Return Loss	Temp = 25°C	0	26.5	-	26	-	dB
Group Delay	Temp = 25°C	0	26.5	-	118	-	ps

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### Typical Performance Plot



# MEQ3-26ABH

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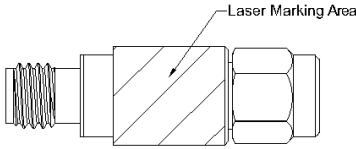
## Mechanical Data

### Outline Drawing

Download : [Outline 2D Drawing](#)

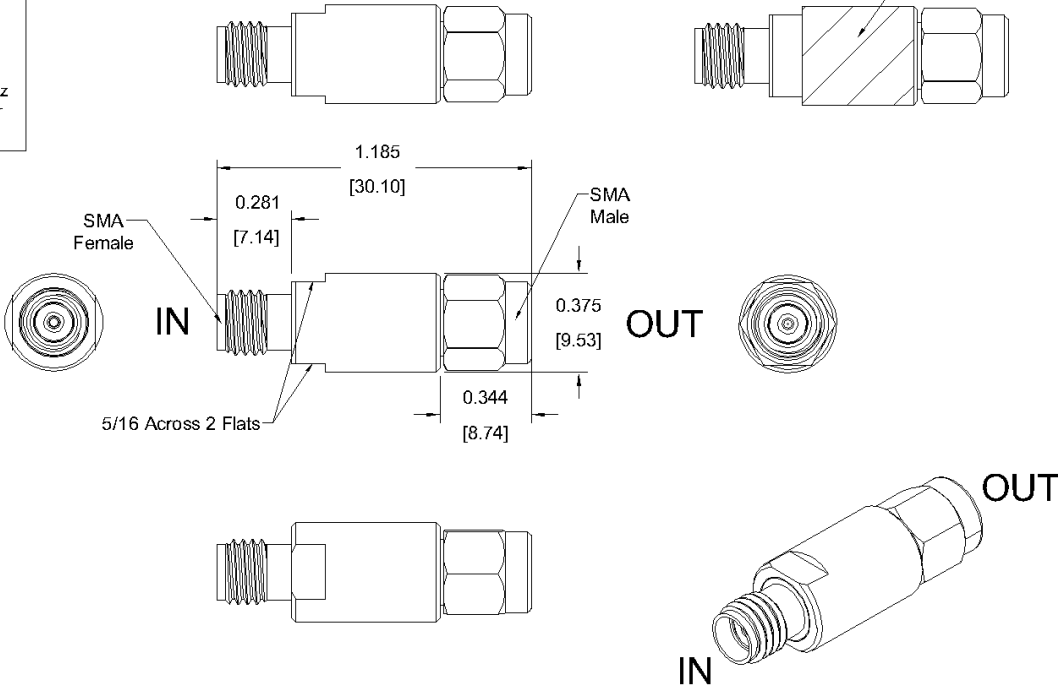
**\*All Dimensions are typical!**

**Laser Marking on Part:**



MEQ3  
26ABH  
DC-26GHz  
Equalizer  
D/C

PROJECTION		REVISIONS		
REV.	DESCRIPTION	DATE	APPROVALS	
A	Initial Release	3/24/26	AT	



**Port # Setup    Ω    Connector Type**

In	In to Gnd	TBD	SMA Female
Out	Out to Gnd	TBD	SMA Male
I to O	In to Out	TBD	SMA F-M

**RoHS Compliant (SN96.5/AG3.5) Components/Assembly**

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NOTES:		DRAWN BY		DATE	
JUL 2007 I.E.W. 02-00-20-110		SK		3/4/2008	
S.10100 010/02 1/10/05		OG		3/5/2026	
NO. 1000 200 M.F.S. 1/16/03		AN		3/5/2026	
MATERIAL:		SIZE		CAGE CODE	
FINISH:		A		0UC32	
DO NOT SCALE DRAWING		DWG. NO.		MEQ3-26ABH	

SHEET 1 OF 1

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