

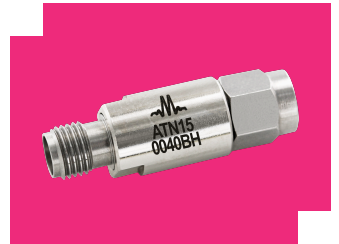
# ATN15-0040BH

## Passive GaAs MMIC DC - 40 GHz 15 dB Attenuator

### DEVICE OVERVIEW

#### General Description

The ATN15-0040BH is a GaAs MMIC attenuator in an inline connectorized bullet housing package. The ATN15-0040BH provides a nominal 15.2 dB attenuation over a DC to 40 GHz operating range. The attenuator delivers accurate, repeatable performance with an excellent 27 dB return loss for test and measurement, and system level applications. GaAs MMIC technology provides consistent unit-to-unit performance. A 50-ohm match is maintained over the entire operating frequency range.



[Download s-parameters here](#)

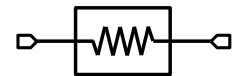
#### Features

- Operating Range, DC to 40 GHz
- Attenuation, 15.2 dB Typical
- Return Loss, 27 dB Typical
- Compact Inline Bullet Housing

#### Applications

- 5G
- Test Equipment
- Precision Characterization
- Airborne Applications
- Amplitude Matching

#### Functional Block Diagram



#### Part Ordering Options

Part Number	Description	Package	Connectors	Green Status	Product Lifecycle	Export Classification
ATN15-0040BH	Passive GaAs MMIC DC - 40 GHz 15 dB Attenuator	BH	<u>Standard</u>	RoHS REACH	Released	EAR99

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### Revision History

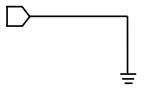
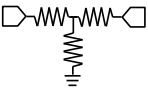
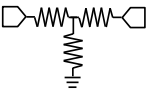
Revision Code	Revision Date	Comment
-	2026-03-20	Initial Release

**Port Configuration and Functions**

**Port Diagram**



**Port Functions**

Port	Function	Connector Type	Description	DC Equivalent Circuit
GND	Ground	-	Ground for the BH package is provided through the metal housing and outer coax conductor.	
IN	Input/Output	2.92F	IN and OUT are DC connected to each other and ground through a T-network of resistors.	
OUT	Input/Output	2.92M	IN and OUT are DC connected to each other and ground through a T-network of resistors.	

## 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
DC Current	100	mA
Maximum Operating Temperature	100	°C
Maximum Storage Temperature	125	°C
Minimum Operating Temperature	-55	°C
Minimum Storage Temperature	-65	°C
RF Power Handling	2	W

Power Handling measured with instantaneous CW of 2 GHz.

### 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

**Electrical Specifications**

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

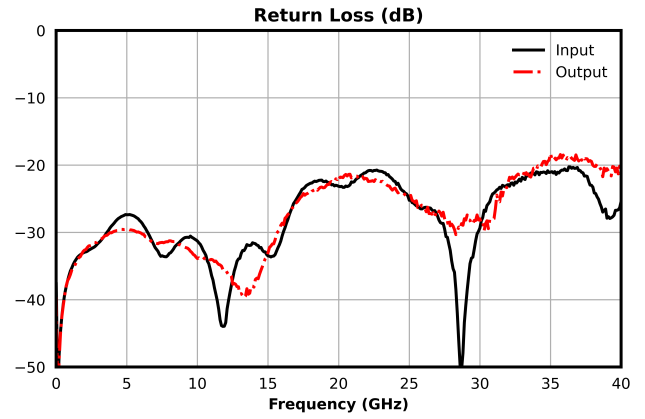
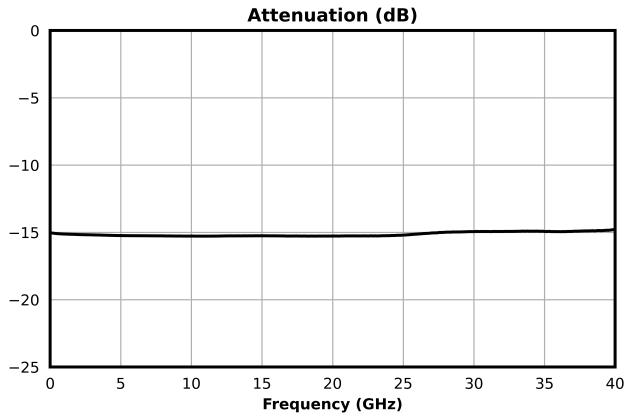
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Attenuation	Configuration A, Temp = 25°C	0	40	-	15.2	-	dB
Return Loss	Configuration A, Temp = 25°C	0	40	-	27	-	dB
Attenuation Flatness <sup>1</sup>	Configuration A, Temp = 25°C	0	40	-	0.5	-	dB

<sup>[1]</sup> Attenuation Flatness = Max(Insertion Loss) - Min(Insertion Loss)

## ATN15-0040BH

Passive GaAs MMIC DC - 40 GHz 15 dB Attenuator

### Typical Performance Plot




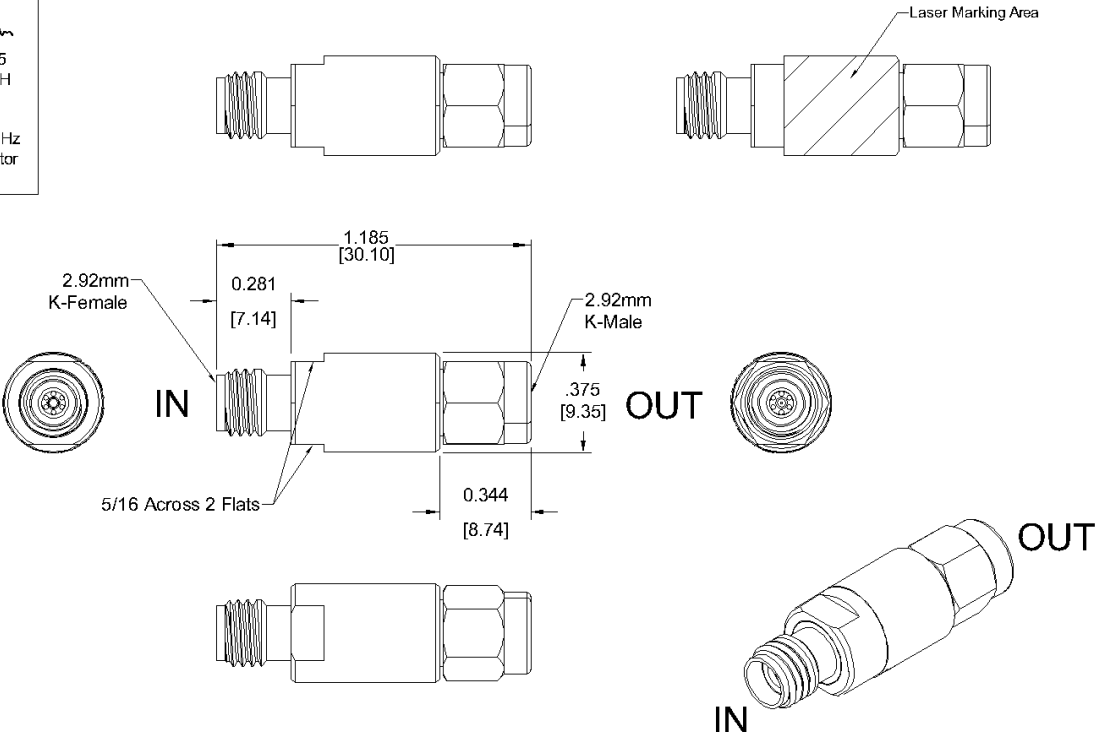
**Mechanical Data**

**Outline Drawing**

Download : [Outline 2D Drawing](#)

**\*All Dimensions are typical!**

**Laser Marking on Part:**

**PROJECTION**

**REVISIONS**

REV.	DESCRIPTION	DATE	APPROVALS
B	ECN 224-01-06-2026	1/20/26	AT

Port #	Setup	$\Omega$	Connector Type
In	In to Gnd	Typ. 54 $\Omega$	2.92mm Female
Out	Out to Gnd	Typ. 54 $\Omega$	2.92mm Male
I to O	In to Out	Typ. 70 $\Omega$	2.92mm F-M

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

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**DO NOT SCALE DRAWING**

**NOTES:**

DRAWN BY	DATE
OG	4/28/2025
LG	4/30/2025
AVC	4/30/2025

**Marki microwave** www.markimicrowave.com

Outline  
ATN15-0040BH

SIZE	CAGE CODE	DWG. NO.
A	0UC32	ATN15-0040BH

SHEET 1 OF 1

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