



# FIXED ATTENUATORS

High Power & High Quality General Purpose Attenuators

BroadWave designs, manufactures, and markets a wide range of High Power & General Purpose Fixed Attenuators ideally suited for OEMs, general lab use, and systems. From controlling the power level on the input of a base station to isolating a sensitive device or test equipment, BroadWave has high quality and cost effective solutions.

- Frequencies up to 4GHz
- Input Power 1W to 1000W CW
- Aluminum Nitride to 100W CW
- Excellent Flatness with Frequency
- Low VSWR
- Bi-directional (up to 300 Watts)
- Excellent connector longevity
- Standard and Application Specific configurations
- Available in custom Attenuator Sets



MODEL 352-001-0XX	
Frequency Range:	DC - 2.4GHz
Impedance:	50 ohms, nominal
Attenuation Value:	1, 2, 3, 6, 10, 20, 30 dB
Attenuation Accuracy:	
<u>1, 2, 3 dB</u>	<u>20dB</u>
DC-1GHz ± 0.3dB	DC-1GHz ± 0.5dB
1-2.4GHz ± 0.5dB	1-2.4GHz ± 1.0dB
<u>6 dB</u>	<u>30dB</u>
DC-1GHz ± 0.4dB	DC-1GHz ± 0.8dB
1-2.4GHz ± 0.8dB	1-2.4GHz ± 1.3dB
<u>10dB</u>	
DC-1GHz ± 0.4dB	
1-2.4GHz ± 0.8dB	
VSWR:	DC-1GHz 1.10:1 max 1GHz-2.4GHz 1.25:1 max
Power Input (average):	100 Watts max @ 40°C 125 Watts max @ 25°C
RF Connectors:	N-type Female, Tri-Alloy Plated
Operating Temp:	-40°C to +40°C

MODEL 352-011-0XX*	
Frequency Range:	DC - 1GHz
Impedance:	50 ohms, nominal
Attenuation Value:	1-20dB
Attenuation Accuracy:	± .5dB
VSWR:	1.10:1 max
Power Input (average):	1 Watt
RF Connectors:	N-type, Male and Female
Operating Temp:	-55°C to +125°C
* insert desired Attenuation Value (example: 3dB = 003)	

Please see the reverse side of this sheet for additional product information.  
The latest new product developments are available on our website: [www.broadwavetech.com](http://www.broadwavetech.com)

## HIGH POWER ATTENUATORS

Model #	Frequency Range	Attenuation Values	VSWR	Input Power	RF Connectors
352-009-XXX	DC-4GHz	1-20 & 30dB	1.25:1	5 Watts CW	N, SMA
352-008-XXX	DC-4GHz (AIN)	1-20 & 30dB	1.25:1	10 Watts CW	N, SMA
352-006-XXX	DC-4GHz (AIN)	1-20 & 30dB	1.25:1	25 Watts CW	N, SMA
352-004-XXX	DC-2.4GHz (AIN)	1-20 & 30dB	1.25:1	50 Watts CW	N, SMA
352-002-XXX	DC-2.4GHz (AIN)	1-20 & 30dB	1.25:1	100 Watts CW	N, SMA
352-025-XXX	DC-4GHz	1-20 & 30dB	1.25:1	10 Watts CW	N, SMA
352-026-XXX	DC-4GHz	1-20 & 30dB	1.25:1	25 Watts CW	N, SMA
352-027-XXX	DC-2.4GHz	1-20 & 30dB	1.25:1	50 Watts CW	N, SMA
352-001-XXX	DC-2.4GHz	1-20 & 30dB	1.25:1	100 Watts CW	N, SMA
352-010-XXX	DC-2.4GHz	1,2,3,6,10,20 & 30dB	1.35:1	150 Watts CW	N
352-017-XXX	DC-3GHz	1,2,3,6,10,20 & 30dB	1.35:1	150 Watts CW	N

## GENERAL PURPOSE ATTENUATORS

Model #	Frequency Range	Attenuation Values	VSWR	Input Power	RF Connectors
352-011-XXX	DC-1GHz	1-20	1.3:1	1 Watt	N
352-012-XXX	DC-1GHz	1-20	1.3:1	1 Watt	BNC
352-024-XXX	DC-2GHz	1-20	1.3:1	1 Watt	N
352-016-XXX	DC-3GHz	1-20	1.4:1	1 Watt	N
352-015-XXX	DC-3GHz	1-20	1.4:1	1 Watt	SMA
352-022-XXX	DC-3GHz	1-20	1.4:1	1 Watt	TNC
352-014-XXX	DC-3GHz	1-20	1.4:1	1 Watt	BNC

\* insert desired Attenuation Value (example: 3dB = 003)

### WARRANTY

BroadWave Technologies' products are warranted free from defects in materials and workmanship for a period of two years from the date of shipment. At our option, we will repair or replace the returned product. This warranty does not apply to products that have been modified or subject to conditions exceeding the applicable specifications. BroadWave Technologies, Inc. shall have no liability for incidental or consequential damages resulting from improper use or negligence.

This warranty is the extent of BroadWave Technologies' liability for its products. No other warranty is expressed or implied.

Please contact customer service at [customerfirst@broadwavetech.com](mailto:customerfirst@broadwavetech.com) or call 317.346.6101 to arrange for product return.

### SHIPPING

BroadWave Technologies will use the best method of shipment unless specified by the buyer. The standard method is UPS, prepaid and bill. The FOB is Franklin, Indiana.

### SPECIFICATIONS

Specifications are subject to change without notice. As applicable, please contact the factory at [customerfirst@broadwavetech.com](mailto:customerfirst@broadwavetech.com) or call 317.346.6101 to verify specifications.

### TERMS

Standard terms are net 30 days for established customers. New customers, subject to credit approval, are also net 30 days. BroadWave also accepts MasterCard, VISA, and Discover for payment.

International orders require approved credit, an Irrevocable Letter of Credit payable through a United States bank, or cash in advance. FOB is Franklin, Indiana.

**CustomerFirst Service**  
[customerfirst@broadwavetech.com](mailto:customerfirst@broadwavetech.com)

or  
317.346.6101