



# FIXED ATTENUATORS

Broadband, High Quality Attenuators

BroadWave designs, manufactures, and markets a wide range of broadband Fixed Attenuators ideally suited for OEMs, general lab use, and systems requiring a wide frequency range. For applications ranging from 2-3 pieces for the test bench to several thousand pieces for a new cellular system build-out, BroadWave has quality and cost effective solutions.

- Frequencies up to 18GHz with SMA or N connectors
- Frequencies up to 26.5GHz with SMA connectors
- Input Power 2W to 25W CW
- Excellent flatness with Frequency
- Low VSWR
- Excellent connector longevity
- Test Data available on request
- Standard dB values in stock
- Available in custom Attenuator Sets
- Standard and Application Specific configurations



MODEL 351-021-XXX	
Frequency Range:	DC - 26.5GHz
Impedance:	50 ohms, nominal
Attenuation Value:	1-30dB
Attenuation Accuracy:	
	<u>DC-18GHz</u> <u>18-26.5GHz</u>
0-6 dB	± 0.4dB                      ± 0.5dB
7-20 dB	± 0.6dB                      ± 0.75dB
21-30 dB	± 0.8dB                      ± 1.0dB
VSWR:	1.4:1 max
Power Input (average):	2 Watts max @ 25°C
RF Connectors:	SMA or 2.9mm
Operating Temp:	-65°C to +125°C

MODEL 351-013-XXX*	
Frequency Range:	DC - 18GHz
Impedance:	50 ohms, nominal
Attenuation Value:	1-20dB
Attenuation Accuracy:	1-6 dB ± .3dB 7-8 dB ± .4dB 9-14 dB ± .5dB 15-20 dB ± .6dB
VSWR:	DC-4GHz                      1.15:1 max 4-8GHz                        1.20:1 max 8-12.4GHz                    1.25:1 max 12.4-18GHz                 1.35:1 max
Power Input (average):	2 Watts max @ 25°C 500 Watts peak
RF Connectors:	SMA Male/Female
Operating Temp:	-65°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)

## BROADBAND ATTENUATORS

Model #	Frequency Range	Attenuation Values	VSWR	Input Power	RF Connectors
351-013-XXX	DC-18GHz	1-20dB	1.35:1	2 Watts	SMA
352-019-XXX	DC-18GHz	1-20dB	1.35:1	2 Watts	N
352-020-XXX	DC-18GHz	1-20dB	1.4:1	10 Watts	N
351-021-XXX	DC-26.5GHz	1-20dB	1.35:1	2 Watts	SMA



### 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