



DIRECTIONAL COUPLERS

Application Specific and Broadband

Directional Couplers designed and marketed by BroadWave provide an accurate method for sampling microwave energy. Available in single and dual configurations. We can offer couplers for most applications including power measurements, signal leveling, and frequency measurements.

- 800-3500MHz models
- Multi-section designs to 26.5GHz
- High Directivity
- Low VSWR
- Special Narrow band configurations
- Excellent Frequency Sensitivity
- Single and Dual configurations
- SMA connectors (Type N available)
- Cost effective designs
- Large volume capacity



MODEL 251-010-020

Frequency Range:	2-18GHz
Impedance:	50 ohms
Coupling:	20dB \pm 1.0dB
Frequency Sensitivity:	0.5dB
Insertion Loss:	0.8dB max
Directivity:	12dB min
VSWR Primary Line:	1.35:1 max
Secondary Line:	1.40:1 max
Input Power:	25 W average 1kW Peak
RF Connectors:	SMA female

MODEL 251-010-020

Frequency Range:	800MHz - 3500MHz
Impedance:	50 ohms
Coupling:	30dB
Frequency Sensitivity:	\pm 1.0dB max
Insertion Loss:	0.25dB max
Directivity:	18dB min
VSWR	1.20:1 max
Input Power:	100 W average
RF Connectors:	N female

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

DIRECTIONAL COUPLERS

Model #	Frequency Range	Coupling	Frequency Sensitivity	Directivity	Insertion Loss	Average Power	Connector
252-011-020	800-3500MHz	20dB	± 1.0 dB	18dB min	.25dB max	100 W	N female
252-011-030	800-3500MHz	30dB	± 1.0 dB	18dB min	.25dB max	100 W	N female
251-013-006	0.5-2GHz	6dB	± 0.75 dB	22dB min	.35dB max	50 W	SMA female
251-013-010	0.5-2GHz	10dB	± 0.75 dB	22dB min	.35dB max	50 W	SMA female
251-013-020	0.5-2GHz	20dB	± 0.75 dB	22dB min	.35dB max	50 W	SMA female
251-013-020	0.5-2GHz	30dB	± 0.8 dB	20dB min	.4dB max	50 W	SMA female
251-018-010	1-2GHz	10dB	± 1.25 dB	25dB min	.2dB max	50 W	SMA female
251-018-020	1-2GHz	20dB	± 1.25 dB	25dB min	.2dB max	50 W	SMA female
251-018-030	1-2GHz	30dB	± 1.25 dB	25dB min	.2dB max	50 W	SMA female
251-017-010	2-4GHz	10dB	± 1.25 dB	22dB min	.2dB max	50 W	SMA female
251-017-020	2-4GHz	20dB	± 1.25 dB	22dB min	.2dB max	50 W	SMA female
251-017-030	2-4GHz	30dB	± 1.25 dB	22dB min	.2dB max	50 W	SMA female
251-014-010	4-8GHz	10dB	± 1.25 dB	20dB min	.25dB max	50 W	SMA female
251-014-020	4-8GHz	20dB	± 1.25 dB	20dB min	.25dB max	50 W	SMA female
251-014-030	4-8GHz	30dB	± 1.25 dB	20dB min	.25dB max	50 W	SMA female
251-016-010	8-12.4GHz	10dB	± 1.0 dB	17dB min	.3dB max	50 W	SMA female
251-016-020	8-12.4GHz	20dB	± 1.0 dB	17dB min	.3dB max	50 W	SMA female
251-016-030	8-12.4GHz	30dB	± 1.0 dB	17dB min	.3dB max	50 W	SMA female
251-015-010	12.4-18GHz	10dB	± 1.0 dB	15dB min	.6dB max	50 W	SMA female
251-015-020	12.4-18GHz	20dB	± 1.0 dB	15dB min	.6dB max	50 W	SMA female
251-015-030	12.4-18GHz	30dB	± 1.0 dB	15dB min	.6dB max	50 W	SMA female
251-010-010	2-18GHz	10dB	± 0.5 dB	12dB min	.8dB max	25 W	SMA female
251-010-020	2-18GHz	20dB	± 0.5 dB	12dB min	.8dB max	25 W	SMA female

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 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 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
or
317.346.6101