

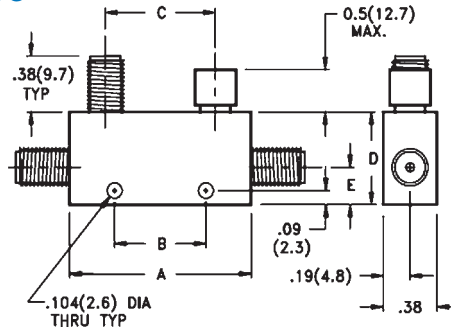
# Couplers

## Directional Couplers • Octave Bandwidth

### SMA Miniature High Performance

- Full Octave Frequency Band Performance
- Low VSWR - High Directivity
- Small Lightweight
- Meets Mil-E-5400 and Mil-E16400

Midwest Microwave's SMA miniature series of high performance directional couplers are small, lightweight, ruggedly constructed stripline units that possess inherently low insertion loss and VSWR with high directivity. Units are available in octave frequency bandwidths covering the entire range of 0.5-18.0 GHz.



### ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE (GHZ)	CASE STYLE	MODEL NUMBER	COUPLING (dB) (incl Freq Sensitivity)	FREQUENCY SENSITIVITY	INSERTION LOSS (dB) max	DIRECTIVITY (dB) max	VSWR max	INPUT		
								Input Avg (W)	Ref Avg (W)	Peak Avg (W)
0.5 - 1.0	4	<a href="#">CPL-5210-06-SMA-79</a>	6 ± 1.0	± 0.60	0.15	25	1.10	50	4	4
	4	<a href="#">CPL-5210-10-SMA-79</a>	10 ± 1.0	± 0.75	0.15	25	1.10	50	10	4
	4	<a href="#">CPL-5210-20-SMA-79</a>	20 ± 1.0	± 0.75	0.15	25	1.10	50	50	4
	4	<a href="#">CPL-5210-30-SMA-79</a>	30 ± 1.0	± 0.75	0.15	25	1.10	50	50	4
1.0 - 2.0	3	<a href="#">CPL-5211-06-SMA-79</a>	6 ± 1.0	± 0.60	0.20	25	1.15	50	4	4
	3	<a href="#">CPL-5211-10-SMA-79</a>	10 ± 1.0	± 0.75	0.20	25	1.15	50	10	4
	3	<a href="#">CPL-5211-20-SMA-79</a>	20 ± 1.0	± 0.75	0.20	25	1.15	50	50	4
	3	<a href="#">CPL-5211-30-SMA-79</a>	30 ± 1.0	± 0.75	0.20	25	1.15	50	50	4
2.0 - 4.0	2	<a href="#">CPL-5212-06-SMA-79</a>	6 ± 1.0	± 0.60	0.20	22	1.15	50	4	4
	2	<a href="#">CPL-5212-10-SMA-79</a>	10 ± 1.0	± 0.75	0.20	22	1.15	50	10	4
	2	<a href="#">CPL-5212-20-SMA-79</a>	20 ± 1.0	± 0.75	0.20	22	1.15	50	50	4
	2	<a href="#">CPL-5212-30-SMA-79</a>	30 ± 1.0	± 0.75	0.20	22	1.15	50	50	4
2.6 - 5.2	1	<a href="#">CPL-5213-06-SMA-79</a>	6 ± 1.0	± 0.60	0.25	20	1.25	50	4	4
	1	<a href="#">CPL-5213-10-SMA-79</a>	10 ± 1.0	± 0.75	0.25	20	1.25	50	10	4
	1	<a href="#">CPL-5213-20-SMA-79</a>	20 ± 1.0	± 0.75	0.25	20	1.25	50	50	4
	5	<a href="#">CPL-5213-30-SMA-79</a>	30 ± 1.0	± 0.75	0.25	20	1.25	50	50	4
4.0 - 8.0	1	<a href="#">CPL-5214-06-SMA-79</a>	6 ± 1.0	± 0.50	0.35	20	1.25	50	4	4
	1	<a href="#">CPL-5214-10-SMA-79</a>	10 ± 1.0	± 0.50	0.35	20	1.25	50	10	4
	1	<a href="#">CPL-5214-20-SMA-79</a>	20 ± 1.0	± 0.50	0.35	20	1.25	50	50	4
	5	<a href="#">CPL-5214-30-SMA-79</a>	30 ± 1.0	± 0.50	0.35	20	1.25	50	50	4
7.0 - 12.4	1	<a href="#">CPL-5215-06-SMA-79</a>	6 ± 1.0	± 0.40	0.40	17	1.35	50	4	4
	1	<a href="#">CPL-5215-10-SMA-79</a>	10 ± .75	± 0.50	0.40	17	1.35	50	10	4
	1	<a href="#">CPL-5215-20-SMA-79</a>	20 ± .75	± 0.50	0.30	17	1.35	50	50	4
	5	<a href="#">CPL-5215-30-SMA-79</a>	30 ± 1.0	± 0.50	0.30	17	1.35	50	50	4
7.0 - 18.0	1	<a href="#">CPL-5216-06-SMA-79</a>	6 ± 1.0	± 0.50	0.50	15	1.35	50	4	3
	1	<a href="#">CPL-5216-10-SMA-79</a>	10 ± 1.0	± 0.50	0.50	15	1.40	50	0	3
	1	<a href="#">CPL-5216-20-SMA-79</a>	20 ± 1.0	± 0.75	0.50	15	1.45	50	50	3
	5	<a href="#">CPL-5216-30-SMA-79</a>	30 ± 1.0	± 0.75	0.50	15	1.45	50	50	3
12.4 - 18.0	1	<a href="#">CPL-5217-06-SMA-79</a>	6 ± 1.0	± 0.40	0.50	15	1.35	50	4	2
	1	<a href="#">CPL-5217-10-SMA-79</a>	10 ± 1.0	± 0.50	0.50	15	1.45	50	10	2
	1	<a href="#">CPL-5217-20-SMA-79</a>	20 ± 1.0	± 0.75	0.50	15	1.45	50	50	2
	5	<a href="#">CPL-5217-30-SMA-79</a>	30 ± 1.0	± 0.75	0.50	15	1.45	50	50	2

Note: TNC or Type N output connectors are available by substituting "TNC" or "NNN" for "SMA" in the Model Number. See next page for dimensions.

# Mouser Electronics

Authorized Distributor

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## Cinch Connectivity Solutions:

[CPL-5211-30-NNN-79](#) [CPL-5211-30-TNC-79](#) [CPL-5211-20-NNN-79](#) [CPL-5211-20-SMA-79](#) [CPL-5211-20-TNC-79](#)  
[CPL-5211-06-TNC-79](#) [CPL-5211-10-SMA-79](#)