



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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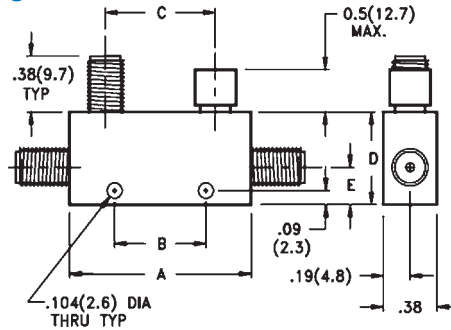
Couplers

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	CPL-5210-06-SMA-79	6 ± 1.0	± 0.60	0.15	25	1.10	50	4	4
	4	CPL-5210-10-SMA-79	10 ± 1.0	± 0.75	0.15	25	1.10	50	10	4
	4	CPL-5210-20-SMA-79	20 ± 1.0	± 0.75	0.15	25	1.10	50	50	4
	4	CPL-5210-30-SMA-79	30 ± 1.0	± 0.75	0.15	25	1.10	50	50	4
1.0 - 2.0	3	CPL-5211-06-SMA-79	6 ± 1.0	± 0.60	0.20	25	1.15	50	4	4
	3	CPL-5211-10-SMA-79	10 ± 1.0	± 0.75	0.20	25	1.15	50	10	4
	3	CPL-5211-20-SMA-79	20 ± 1.0	± 0.75	0.20	25	1.15	50	50	4
	3	CPL-5211-30-SMA-79	30 ± 1.0	± 0.75	0.20	25	1.15	50	50	4
2.0 - 4.0	2	CPL-5212-06-SMA-79	6 ± 1.0	± 0.60	0.20	22	1.15	50	4	4
	2	CPL-5212-10-SMA-79	10 ± 1.0	± 0.75	0.20	22	1.15	50	10	4
	2	CPL-5212-20-SMA-79	20 ± 1.0	± 0.75	0.20	22	1.15	50	50	4
	2	CPL-5212-30-SMA-79	30 ± 1.0	± 0.75	0.20	22	1.15	50	50	4
2.6 - 5.2	1	CPL-5213-06-SMA-79	6 ± 1.0	± 0.60	0.25	20	1.25	50	4	4
	1	CPL-5213-10-SMA-79	10 ± 1.0	± 0.75	0.25	20	1.25	50	10	4
	1	CPL-5213-20-SMA-79	20 ± 1.0	± 0.75	0.25	20	1.25	50	50	4
	5	CPL-5213-30-SMA-79	30 ± 1.0	± 0.75	0.25	20	1.25	50	50	4
4.0 - 8.0	1	CPL-5214-06-SMA-79	6 ± 1.0	± 0.50	0.35	20	1.25	50	4	4
	1	CPL-5214-10-SMA-79	10 ± 1.0	± 0.50	0.35	20	1.25	50	10	4
	1	CPL-5214-20-SMA-79	20 ± 1.0	± 0.50	0.35	20	1.25	50	50	4
	5	CPL-5214-30-SMA-79	30 ± 1.0	± 0.50	0.35	20	1.25	50	50	4
7.0 - 12.4	1	CPL-5215-06-SMA-79	6 ± 1.0	± 0.40	0.40	17	1.35	50	4	4
	1	CPL-5215-10-SMA-79	10 ± .75	± 0.50	0.40	17	1.35	50	10	4
	1	CPL-5215-20-SMA-79	20 ± .75	± 0.50	0.30	17	1.35	50	50	4
	5	CPL-5215-30-SMA-79	30 ± 1.0	± 0.50	0.30	17	1.35	50	50	4
7.0 - 18.0	1	CPL-5216-06-SMA-79	6 ± 1.0	± 0.50	0.50	15	1.35	50	4	3
	1	CPL-5216-10-SMA-79	10 ± 1.0	± 0.50	0.50	15	1.40	50	0	3
	1	CPL-5216-20-SMA-79	20 ± 1.0	± 0.75	0.50	15	1.45	50	50	3
	5	CPL-5216-30-SMA-79	30 ± 1.0	± 0.75	0.50	15	1.45	50	50	3
12.4 - 18.0	1	CPL-5217-06-SMA-79	6 ± 1.0	± 0.40	0.50	15	1.35	50	4	2
	1	CPL-5217-10-SMA-79	10 ± 1.0	± 0.50	0.50	15	1.45	50	10	2
	1	CPL-5217-20-SMA-79	20 ± 1.0	± 0.75	0.50	15	1.45	50	50	2
	5	CPL-5217-30-SMA-79	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.