

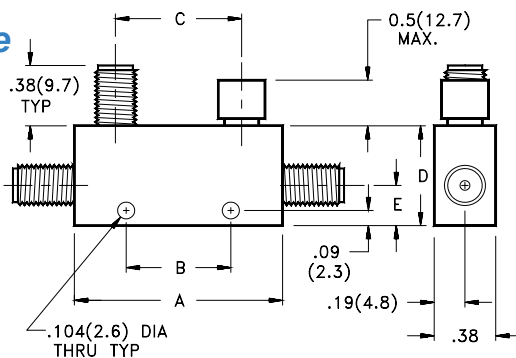
# Couplers

## Directional Couplers • Ultra - Wideband

### Ultra-Wideband Performance

- Full 0.5 - 18.0 GHz bandwidth units
- Low VSWR - High Directivity
- Rugged Stripline Construction
- Meets Mil-E-5400 and Mil-E16400

Midwest Microwave's SMA miniature series of Ultra-Wideband high performance directional couplers are small, lightweight, components that perform extremely well over multi-octave and Ultra-Wideband frequencies 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) min	VSWR max	Input Avg (W)	POWER Refl Avg (W)	Peak (kW) (W)
0.5 - 2.0	6	<a href="#">CPL-5220-06-SMA-79</a>	6 + 1.0	+ 0.50	0.40	22	1.20	50	10	4
	6	<a href="#">CPL-5220-10-SMA-79</a>	10 + 1.0	+ 0.50	0.40	22	1.20	50	10	4
	6	<a href="#">CPL-5220-16-SMA-79</a>	16 + 1.0	+ 0.50	0.40	22	1.20	50	40	4
	6	<a href="#">CPL-5220-20-SMA-79</a>	20 + 1.0	+ 0.50	0.40	22	1.20	50	50	4
1.0 - 4.0	6	<a href="#">CPL-5221-06-SMA-79</a>	6 + 1.0	+ 0.50	0.50	22	1.25	50	10	4
	6	<a href="#">CPL-5221-10-SMA-79</a>	10 + 1.0	+ 0.50	0.50	22	1.25	50	10	4
	6	<a href="#">CPL-5221-16-SMA-79</a>	16 + 1.0	+ 0.50	0.50	22	1.25	50	40	4
	6	<a href="#">CPL-5221-20-SMA-79</a>	20 + 1.0	+ 0.50	0.50	22	1.25	50	50	4
2.0 - 8.0	7	<a href="#">CPL-5222-06-SMA-79</a>	6 + 1.0	+ 0.50	0.60	20	1.25	50	10	4
	7	<a href="#">CPL-5222-10-SMA-79</a>	10 + 1.0	+ 0.50	0.60	20	1.25	50	10	4
	7	<a href="#">CPL-5222-16-SMA-79</a>	16 + 1.0	+ 0.50	0.60	20	1.25	50	40	4
	7	<a href="#">CPL-5222-20-SMA-79</a>	20 + 1.0	+ 0.50	0.60	20	1.25	50	50	4
6.0 - 18.0	1	<a href="#">CPL-5226-06-SMA-79</a>	6 + 1.0	+ 0.50	0.65	15	1.40	50	10	3
	1	<a href="#">CPL-5226-10-SMA-79</a>	10 + 1.0	+ 0.50	0.60	15	1.40	50	10	3
	1	<a href="#">CPL-5226-16-SMA-79</a>	16 + 1.0	+ 0.50	0.60	15	1.40	50	40	3
	1	<a href="#">CPL-5226-20-SMA-79</a>	20 + 1.0	+ 0.50	0.60	15	1.40	50	50	3
0.5 - 18.0	6	<a href="#">CPL-5230-10-SMA-79</a>	10* + 1.5	+ 1.00	0.80	15**	1.50	50	10	3
	6	<a href="#">CPL-5230-16-SMA-79</a>	16* + 1.5	+ 1.00	0.80	15**	1.50	50	40	3
	6	<a href="#">CPL-5230-20-SMA-79</a>	20* + 1.5	+ 1.00	0.80	15**	1.50	50	50	3
1.0 - 18.0	6	<a href="#">CPL-5231-10-SMA-79</a>	10* + 1.0	+ 0.60	1.05	15**	1.50	50	10	3
	6	<a href="#">CPL-5231-16-SMA-79</a>	16* + 1.0	+ 0.60	0.80	15**	1.50	50	40	3
	6	<a href="#">CPL-5231-20-SMA-79</a>	20* + 1.0	+ 0.50	0.80	15**	1.50	50	50	3
2.0 - 18.0	7	<a href="#">CPL-5232-06-SMA-79</a>	6* + 1.0	+ 0.50	0.80	15**	1.40	50	10	3
	7	<a href="#">CPL-5232-10-SMA-79</a>	10* + 1.0	+ 0.50	0.80	15**	1.40	50	10	3
	7	<a href="#">CPL-5232-16-SMA-79</a>	16* + 1.0	+ 0.50	0.80	15**	1.40	50	40	3
	7	<a href="#">CPL-5232-20-SMA-79</a>	20* + 1.0	+ 0.50	0.80	15**	1.40	50	50	3

\* Coupling is referenced to the output port.

\*\* Directivity is 12 dB from 12.4 - 18.0 GHz.

### MECHANICAL SPECIFICATIONS - INCHES (mm)

CASE STYLE	A	B	C	D	E	WEIGHT	
						Oz	Gr
1	1.00 (25.4)	N/A	0.50 (12.7)	0.50 (12.7)	0.22 (5.6)	0.60	17.0
2	1.16 (29.4)	0.34 (8.7)	0.66 (16.7)	0.50 (12.7)	0.22 (5.6)	0.64	18.2
3	1.78 (45.2)	0.94 (23.8)	1.28 (32.5)	0.50 (12.7)	0.22 (5.6)	0.82	23.2
4	3.00 (76.2)	1.00 (25.4)	2.5 (63.5)	0.75 (19.1)	0.31 (7.9)	1.50	43.0
5	1.00 (25.4)	N/A	0.50 (12.7)	0.63 (15.9)	0.22 (5.6)	0.67	19.0
6	3.50 (88.9)	2.00 (50.8)	3.00 (76.2)	0.75 (19.1)	0.25 (6.3)	1.75	49.6
7	2.00 (50.8)	0.95 (24.2)	1.50 (38.1)	0.63 (16.0)	0.22 (5.6)	1.30	36.9

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



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SKU	Product	Frequency	Power	Body	Interface	Gender	dB	
Multi-Octave Broadband Directional Couplers								
CPL-5230-10-NNN-79	Coupler	18	50	STD	N	F	10	<a href="#">More Details</a>
CPL-5230-10-SMA-79	Coupler	18	50	STD	SMA	F	10	<a href="#">More Details</a>
CPL-5230-10-TNC-79	Coupler	18	50	STD	TNC	F	10	<a href="#">More Details</a>
CPL-5230-16-NNN-79	Coupler	18	50	STD	N	F	16	<a href="#">More Details</a>
CPL-5230-16-SMA-79	Coupler	18	50	STD	SMA	F	16	<a href="#">More Details</a>
CPL-5230-16-TNC-79	Coupler	18	50	STD	TNC	F	16	<a href="#">More Details</a>
CPL-5230-20-NNN-79	Coupler	18	50	STD	N	F	20	<a href="#">More Details</a>
CPL-5230-20-SMA-79	Coupler	18	50	STD	SMA	F	20	<a href="#">More Details</a>
CPL-5230-20-TNC-79	Coupler	18	50	STD	TNC	F	20	<a href="#">More Details</a>
Multi-Octave Broadband Directional Couplers - RoHS Compliant								
CPL-5230-10-SMR-79	Coupler	18	50	STD	SMA	F	10	<a href="#">More Details</a>
SMA Connectors								
SMA-5230-14-TAB-02	Connector			2HL	SMA	M		<a href="#">More Details</a>
SMA-5230-15-TAB-00	Connector			2HL	SMA	F		<a href="#">More Details</a>
SMA-5230-15-TAB-02	Connector			2HL	SMA	F		<a href="#">More Details</a>

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