

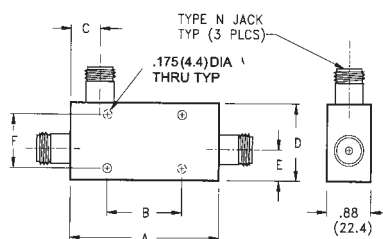
Couplers

Directional Couplers - N • TNC Types

500 Watt High Performance

- 500 MHz to 18.0 GHz Frequency Range
- Low VSWR - High Directivity
- 500 Watt High Power Capability
- Individually Calibrated

Midwest Microwave's series of High Power Directional Couplers are useable for system or testing where flat frequency response over extended bandwidths is required. They possess high directivity and will withstand high input power under extreme environmental conditions. Standard units have stainless steel Type N female connectors but are also available with TNC connectors.



Note: Case Style 7 has two mounting holes.

ELECTRICAL SPECIFICATIONS

Frequency Range (GHz)	Case Style	Model Number	Coupling (dB) (Incl Freq Sensitivity)	Frequency Sensitivity (dB)	Insertion Loss (dB) max	Directivity (dB) min	VSWR max	Power (In)		
.5-1.0	1	CPL-5044-10-NNN-79	10 ± 1.0	± 0.75	0.20	30	1.15	200	50	10
	1	CPL-5044-20-NNN-79	20 ± 1.0	± 0.75	0.20	30	1.15	500	500	10
	2	CPL-5044-30-NNN-79	30 ± 1.0	± 0.75	0.20	30	1.15	500	500	10
1.0-2.0	3	CPL-5045-10-NNN-79	10 ± 1.0	± 0.75	0.20	30	1.15	200	50	10
	3	CPL-5045-20-NNN-79	20 ± 1.0	± 0.75	0.20	30	1.15	500	500	10
	4	CPL-5045-30-NNN-79	30 ± 1.0	± 0.75	0.20	30	1.15	500	500	10
2.0-4.0	3	CPL-5046-10-NNN-79	10 ± 1.0	± 0.75	0.20	25	1.15	200	50	10
	3	CPL-5046-20-NNN-79	20 ± 1.0	± 0.75	0.20	27	1.15	500	500	10
	4	CPL-5046-30-NNN-79	30 ± 1.0	± 0.75	0.20	27	1.15	500	500	10
4.0-10.0	5	CPL-5047-10-NNN-79	10 ± 1.0	± 0.75	0.25	20*	1.20	200	50	10
	5	CPL-5047-20-NNN-79	20 ± 1.0	± 0.75	0.25	20*	1.20	500	500	10
	6	CPL-5047-30-NNN-79	30 ± 1.0	± 0.75	0.25	20*	1.20	500	500	10
7.0-12.4	7	CPL-5048-10-NNN-79	10 ± .75	± 0.75	0.25	15	1.25	200	50	10
	7	CPL-5048-20-NNN-79	20 ± .75	± 0.75	0.25	15	1.25	500	500	10
	7	CPL-5048-30-NNN-79	30 ± .75	± 0.75	0.25	15	1.25	500	500	10

* Directivity is 17 dB from 8.0 - 10.0 GHz.

MECHANICAL SPECIFICATIONS - INCHES (mm)

CASE STYLE	A	B	C	D	E	F	WEIGHT	
							Lbs	Kg
1	6.25 (158.8)	3.00 (76.2)	0.51 (13.0)	2.13 (54.0)	0.87 (22.1)	1.687 (42.9)	1.2	0.52
2	6.25 (158.8)	3.00 (76.2)	0.51 (13.0)	2.13 (54.0)	0.69 (17.5)	1.687 (42.9)	1.2	0.52
3	4.10 (104.1)	1.09 (27.7)	0.50 (12.7)	2.13 (54.0)	0.87 (22.1)	1.687 (42.9)	1.0	0.45
4	4.10 (104.1)	1.09 (27.7)	0.50 (12.7)	2.13 (54.0)	0.69 (17.5)	1.687 (42.9)	1.0	0.45
5	5.10 (129.5)	2.00 (50.8)	0.66 (16.8)	2.13 (54.0)	0.57 (14.5)	1.687 (42.9)	1.1	0.50
6	5.10 (129.5)	2.00 (50.8)	0.57 (14.5)	2.13 (54.0)	0.69 (17.5)	1.687 (42.9)	1.1	0.50
7	2.50 (63.5)	1.13 (28.7)	0.60 (15.2)	1.50 (38.1)	0.60 (15.2)	1.093 (27.8)	0.8	0.40

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

Mouser Electronics

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