

Stripline Directional Couplers

Octave Bandwidth

50 watt - Type N Connectors

MODELS

SPECIFICATIONS

	Frequency Range (GHz)	*Coupling (dB)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)		**Directivity (dB Min.)	VSWR		Power (Watts)			
				Excluding Coupled Power	True		Pri. Line	Sec. Line	Average Incident	Average Reflected	Peak (kW)	
317.2000-	.225-0.4	6 - 1.00	- 0.75	0.25	1.85	19	1.30	1.30	50	2	1	
6/NF		10 - 1.00	- 0.75	0.25	0.75	19	1.30	1.30	50	5	1	
10/NF		20 - 1.00	- 0.75	0.25	0.30	0.30	19	1.30	1.30	50	50	1
20/NF		30 - 1.00	- 0.75	0.25	0.30	0.30	19	1.30	1.30	50	50	1
30/NF												
317.2001-	0.5-1.0	6 - 1.00	- 0.75	0.20	0.80	22	1.30	1.30	50	2	3	
6/NF		10 - 1.25	- 0.75	0.20	0.80	22	1.30	1.30	50	5	3	
10/NF		20 - 1.25	- 0.75	0.20	0.25	0.25	22	1.30	1.30	50	50	3
20/NF		30 - 1.25	- 0.75	0.20	0.25	0.25	22	1.30	1.30	50	50	3
30/NF		40 - 1.25	- 0.75	0.20	0.25	0.25	22	1.30	1.30	50	50	3
40/NF												
317.2002-	1.0-2.0	6 - 1.25	- 0.75	0.20	2.00	20	1.22	1.25	50	2	3	
6/NF		10 - 1.25	- 0.75	0.20	0.90	20	1.22	1.25	50	5	3	
10/NF		20 - 1.25	- 0.75	0.20	0.20	0.20	20	1.22	1.25	50	50	3
20/NF		30 - 1.25	- 0.75	0.20	0.20	0.20	20	1.22	1.25	50	50	3
30/NF		40 - 1.25	- 0.75	0.20	0.20	0.20	20	1.22	1.25	50	50	3
40/NF												
317.2003-	1.5-3.0	6 - 1.25	- 0.85	0.25	1.85	17	1.40	1.40	50	2	1	
6/NF		10 - 1.25	- 0.85	0.25	0.75	17	1.40	1.40	50	5	1	
10/NF		20 - 1.25	- 0.85	0.25	0.30	0.30	17	1.40	1.40	50	50	1
20/NF		30 - 1.25	- 0.85	0.25	0.30	0.30	17	1.40	1.40	50	50	1
30/NF												
317.2004-	1.85-3.65	6 - 1.25	- 0.85	0.35	1.20	18	1.35	1.35	50	2	3	
6/NF		10 - 1.25	- 0.85	0.35	1.20	18	1.35	1.35	50	5	3	
10/NF		20 - 1.25	- 0.85	0.20	0.30	0.30	18	1.35	1.35	50	50	3
20/NF		30 - 1.25	- 0.85	0.20	0.20	0.20	18	1.35	1.35	50	50	3
30/NF												
317.2005-	2.0-4.0	6 - 1.25	- 0.75	0.20	1.80	18	1.40	1.40	50	2	3	
6/NF		10 - 1.25	- 0.75	0.20	0.90	18	1.40	1.40	50	5	3	
10/NF		20 - 1.25	- 0.75	0.20	0.30	0.30	18	1.40	1.40	50	50	3
20/NF		30 - 1.25	- 0.75	0.20	0.30	0.30	18	1.40	1.40	50	50	3
30/NF												
317.2006-	2.6-5.2	6 - 1.25	- 0.75	0.20	1.80	18	1.40	1.40	50	2	3	
6/NF		10 - 1.25	- 0.75	0.20	0.80	18	1.40	1.40	50	5	3	
10/NF		20 - 1.25	- 0.75	0.20	0.30	0.30	18	1.40	1.40	50	50	3
20/NF		30 - 1.25	- 0.75	0.20	0.30	0.30	18	1.40	1.40	50	50	3
30/NF												
317.2007-	4.0-8.0	6 - 1.25	- 0.85	0.35	2.00	17	1.50	1.50	50	2	3	
6/NF		10 - 1.25	- 0.85	0.35	1.20	17	1.50	1.50	50	5	3	
10/NF		20 - 1.25	- 0.85	0.35	0.35	0.35	17	1.50	1.50	50	50	3
20/NF		30 - 1.25	- 0.85	0.35	0.35	0.35	17	1.50	1.50	50	50	3
30/NF												
317.2008-	7.0-12.4	6 - 1.25	- 0.85	0.45	2.00	15	1.50	1.50	50	2	3	
6/NF		10 - 1.25	- 0.85	0.45	1.20	15	1.50	1.50	50	5	3	
10/NF		20 - 1.25	- 0.85	0.45	0.45	0.45	15	1.50	1.50	50	50	3
20/NF		30 - 1.25	- 0.85	0.45	0.45	0.45	15	1.50	1.50	50	50	3
30/NF												

*Includes frequency sensitivity.

**Higher directivity designs available. Consult factory with requirements.

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SPECIFICATIONS

	Frequency Range (GHz)	Coupling** (dB)	Frequency Sensitivity (dB)	Insertion Loss (db Max) Excluding Coupled Power		Directivity (db Min.)	VSWR(Max)		Power(Watts)			
				True			Pri. Line (Watts)	Sec. Line	Average Incident	Average Reflected	Peak (kW)	
317.2021-												
6S	0.5-1.0	6 - 1.25	- 0.60	0.20	0.80	25	1.15:1	1.15:1	50	2	3	
10S		10 - 1.25	- 0.75	0.20	0.80	25	1.15:1	1.15:1	50	5	3	
20S		20 - 1.25	- 0.75	0.20	0.20	25	1.15:1	1.15:1	50	50	3	
30S		30 - 1.25	- 0.75	0.20	0.20	25	1.20:1	1.15:1	50	50	3	
317.2022-												
6S	1.0-2.0	6 - 1.00	- 0.60	0.20	1.80	25	1.15:1	1.15:1	50	2	3	
10S		10 - 1.25	- 0.75	0.20	0.90	25	1.10:1	1.10:1	50	5	3	
20S		20 - 1.25	- 0.75	0.20	0.20	25	1.10:1	1.10:1	50	50	3	
30S		30 - 1.25	- 0.75	0.20	0.20	25	1.10:1	1.10:1	50	50	3	
317.2023-												
6S	2.0-4.0	6 - 1.00	- 0.60	0.20	1.80	22	1.15:1	1.15:1	50	2	3	
10S		10 - 1.25	- 0.75	0.20	0.70	22	1.15:1	1.15:1	50	5	3	
20S		20 - 1.25	- 0.75	0.20	0.20	22	1.15:1	1.15:1	50	50	3	
30S		30 - 1.25	- 0.75	0.20	0.20	22	1.15:1	1.15:1	50	50	3	
317.2024-												
6S	2.6-5.2	6 - 1.00	- 0.60	0.20	1.80	18	1.25:1	1.25:1	50	2	3	
10S		10 - 1.25	- 0.75	0.20	0.80	20	1.25:1	1.25:1	50	5	3	
20S		20 - 1.25	- 0.75	0.20	0.25	20	1.25:1	1.25:1	50	50	3	
30S		30 - 1.25	- 0.75	0.20	0.25	20	1.25:1	1.25:1	50	50	3	
317.2025-												
6S	4.0-8.0	6 - 1.00	- 0.60	0.25	2.00	18	1.30:1	1.30:1	50	2	3	
10S		10 - 1.25	- 0.75	0.25	1.00	20	1.30:1	1.30:1	50	5	3	
20S		20 - 1.25	- 0.75	0.25	0.30	20	1.25:1	1.30:1	50	50	3	
30S		30 - 1.25	- 0.75	0.25	0.25	20	1.25:1	1.30:1	50	50	3	
317.2026-												
6S	7.0-12.4	6 - 1.00	- 0.50	0.40	2.00	15	1.35:1	1.40:1	50	2	3	
10S		10 - 1.25	- 0.50	0.40	1.00	17	1.35:1	1.40:1	50	5	3	
20S		20 - 1.00	- 0.50	0.30	0.30	17	1.35:1	1.40:1	50	50	3	
30S		30 - 1.00	- 0.50	0.30	0.30	17	1.35:1	1.40:1	50	50	3	
317.2027-												
6S	7.5-16.0	6 - 1.10	- 0.60	0.60	2.00	12	1.35:1	1.40:1	50	5	2	
10S		10 - 1.50	- 0.75	0.60	1.00	12	1.35:1	1.40:1	50	5	2	
20S		20 - 1.25	- 0.75	0.50	0.50	15	1.35:1	1.40:1	50	50	2	
30S		30 - 1.25	- 0.75	0.50	0.50	15	1.35:1	1.40:1	50	50	2	
317.2028-												
6S	12.4-18.0	6 - 1.00	- 0.50	0.55	2.00	15	1.35:1	1.45:1	50	2	1	
10S		10 - 1.00	- 0.50	0.55	1.10	15	1.35:1	1.40:1	50	5	1	
20S		20 - 1.00	- 0.50	0.50	0.55	15	1.30:1	1.40:1	50	50	1	
30S		30 - 1.00	- 0.50	0.50	0.55	15	1.30:1	1.40:1	50	50	1	
317.2029-												
6S	18.0-26.5	6 - 1.30	- 0.80	0.90	2.00	10	1.70:1	1.80:1	50	2	1	
10S		10 - 1.20	- 0.70	0.90	1.50	11	1.60:1	1.70:1	50	5	1	
20S		20 - 1.20	- 0.70	0.80	0.80	11	1.60:1	1.70:1	50	50	1	
30S		30 - 1.20	- 0.70	0.80	0.80	11	1.60:1	1.70:1	50	50	1	
317.2030-												
6S	11.7-12.2	6 - 1.00	- 0.75	0.60	2.00	17	1.40:1	1.45:1	50	2	1	
10S		10 - 1.00	- 0.75	0.60	1.00	17	1.40:1	1.45:1	50	5	1	
20S		20 - 1.00	- 0.75	0.50	0.55	17	1.40:1	1.45:1	50	50	1	
30S		30 - 1.00	- 0.75	0.50	0.55	17	1.40:1	1.45:1	50	50	1	
317.2031-												
6S	1.5-3.0	6 - 1.30	- 0.75	0.90	2.00	17	1.30:1	1.30:1	50	2	1	
10S		10 - 1.00	- 0.75	0.90	1.50	17	1.30:1	1.30:1	50	5	1	
20S		20 - 1.00	- 0.75	0.80	0.80	17	1.30:1	1.30:1	50	50	1	
30S		30 - 1.00	- 0.75	0.50	0.55	17	1.30:1	1.30:1	50	50	1	
317.2032-												
6S	0.225-0.4	6 - 1.25	- 0.75	0.20	1.80	22	1.20:1	1.20:1	50	2	1	
10S		10 - 1.00	- 0.75	0.20	0.90	22	1.20:1	1.20:1	50	5	1	
20S		20 - 1.00	- 0.75	0.20	0.20	22	1.20:1	1.20:1	50	50	1	
30S		30 - 1.00	- 0.75	0.20	0.20	22	1.20:1	1.20:1	50	50	1	

*Includes frequency sensitivity.