



0.225-10 GHz

## Type N Coaxial Directional Couplers

- High Directivity
- Ruggedized Construction
- Low VSWR

### Specifications

Type N (F), 0.225 - 10 GHz, 200 / 500 W

FREQUENCY RANGE (GHz)	MODEL	NOMINAL COUPLING (dB)	DIRECTIVITY (dB min.)	INSERTION LOSS (dB)		VSWR		CALIBRATION FREQUENCY (GHz)	ABSOLUTE CALIBRATION ACCURACY (dB per 10 dB step)	MAXIMUM DEVIATION FROM NOMINAL	INCIDENT POWER (W)		REFLECTED POWER (W)		PEAK (kW)	WEIGHT (max)	
				EXCLUDING COUPLED POWER	TRUE	PRIMARY LINE (max.)	SECONDARY LINE (max.)				10 dB	20, 30 dB	10 dB	20, 30 dB		lb.	kg.
0.225-0.460	3000-10	10			0.70			0.225, 0.280,	±0.1	±1.2	200	500	50	500	10	2.0	0.91
	3000-20	20	30	0.20	0.20	1.10	1.15	0.350, 0.410,									
	3000-30	30		0.20	0.20			0.460									
0.46-0.95	3001-10	10			0.70			0.460, 0.580,	±0.1	±1.2	200	500	50	500	10	1.5	0.70
	3001-20	20	30	0.20	0.20	1.15	1.15	0.700, 0.825,									
	3001-30	30		0.20	0.20			0.950									
0.95-2	3002-10	10			0.70			0.950, 1.21,	±0.1	±1.2	200	500	50	500	10	1.0	0.45
	3002-20	20	30	0.20	0.20	1.15	1.15	1.47, 1.73,									
	3002-30	30		0.20	0.20			2.00									
2-4	3003-10	10	25		0.70			2.0, 2.5, 3.0,	±0.1	±1.2	200	500	50	500	10	1.0	0.45
	3003-20	20	27	0.20	0.20	1.15	1.20	3.5, 4.0									
	3003-30	30	27		0.20												
4-10	3004-10	10	20/17**		0.85			4.0, 5.5, 7.0,	±0.1	±1.6*	200	500	50	500	10	1.0	0.45
	3004-20	20	20/17**	0.20	0.25	1.20	1.30	8.5, 10.0									
	3004-30	30	20/17**		0.20												

\* Model 3004 has frequency sensitivity of ±1.2 dB from mean coupling. The mean coupling may deviate from the nominal by ±0.4 dB.

\*\* Directivity at 4-8 GHz: 20 dB; from 8-10 GHz: 17dB

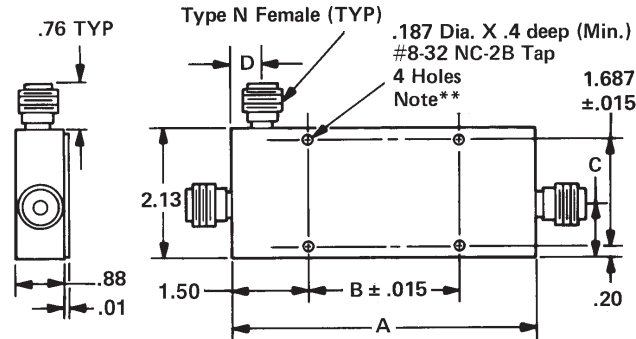
#### NOTE:

Model 3004 Series is available on a special order basis. Minimum quantities may apply.



# Couplers

## Outline Drawing



\*\*Holes covered by nameplate this side.

MODEL	A	B	C	D
3000-10	10.68	3.000	.87	.50
3000-20	10.68	±.015	.87	.50
3000-30	10.68		.69	.50
3001-10	6.25	3.000	.87	.50
3001-20	6.25	±.015	.87	.50
3001-30	6.25		.69	.50
3002-10	4.10	1.090	.87	.50
3002-20	4.10	±.015	.87	.50
3002-30	4.10		.69	.50
3003-10	4.10	1.090	.87	.50
3003-20	4.10	±.015	.87	.50
3003-30	4.20		.69	.50
3004-10	5.00	2.000	.57	.66
3004-20	5.00	±.015	.69	.57
3004-30	5.00		.69	.57

Dimensions in inches, unless otherwise specified.

