

Couplers

50 Years of
Excellence

0.5-18 GHz

**SMA and Type N
Broadband Coaxial
Directional Couplers**

- Flat Frequency Response
- Small Size, Lightweight
- Very Low, Fine Grain Ripple

**Specifications**

FREQUENCY RANGE GHz	CON- NECTOR	MODEL	NOMINAL COUPLING** dB	DIRECTIVITY dB		INSERTION LOSS EXCLUDING COUPLED POWER		VSWR		FREQUENCY* SENSITIVITY dB	MAXIMUM DEVIATION from NOMINAL dB	POWER		WEIGHT	
				1-8	8-12.4	COUPLED POWER	TRUE (max)	PRIMARY LINE (max)	SECONDARY LINE (max)			AVG. PEAK Watts	kW	(max) Oz	Gr
1-12.4	SMA	4202B-6	6	15	12	0.75	2.00	1.35	1.5	±0.5	±1.5	20	3	2.8	80
	SMA	4202B-10	10	15	12	0.70	1.30	1.35	1.50	±0.5	±1.5	20	3	2.9	83
	SMA	4202B-20	20	15	15	0.70	0.75	1.35	1.50	±0.5	±1.5	20	3	2.9	83
	N	3202B-10	10	15	12	0.70	1.30	1.35	1.50	±0.5	±1.5	20	3	4.5	128
	N	3202B-20	20	15	15	1.00	1.05	1.35	1.50	±0.5	±1.5	20	3	4.5	128

FREQUENCY RANGE GHz	CON- NECTOR	MODEL	NOMINAL COUPLING** dB	DIRECTIVITY dB		INSERTION LOSS EXCLUDING COUPLED POWER		VSWR		FREQUENCY* SENSITIVITY dB	MAXIMUM DEVIATION from NOMINAL dB	POWER		WEIGHT	
				2-12.4	12.4-18	COUPLED POWER	TRUE (max)	PRIMARY LINE (max)	SECONDARY LINE (max)			AVG. PEAK Watts	kW	(max) Oz	Gr
2-18	SMA	4203-6	6	15	12	0.90	2.00	1.40	1.40	±0.5	±1.0	20	3	2.0	59
	SMA	4203-10	10	15	12	0.90	1.40	1.35	1.50	±0.5	±1.0	20	3	2.2	55
	SMA	4203-16	16	15	12	0.65	0.80	1.35	1.40	±0.5	±1.0	20	3	1.8	51
	N	3203-16	16	15	12	0.85	1.00	1.40	1.40	±0.5	±1.0	20	3	3.4	96
1-18	SMA	4222-16	16	15	12	0.80	0.90	1.40	1.50	±0.5	±1.0	20	3	2.3	65
	N	3222-16	16	15	12	0.80	0.90	1.40	1.50	±0.5	±1.0	20	3	3.4	96

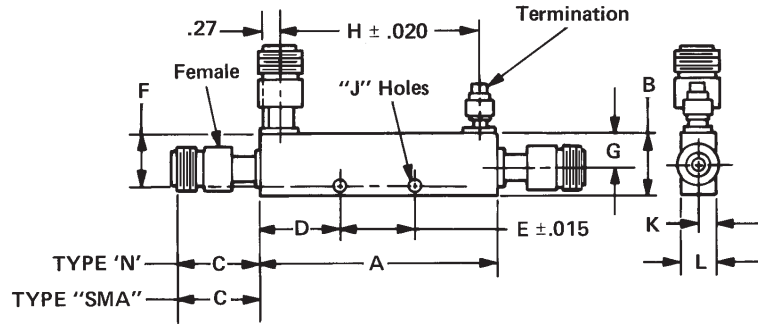
FREQUENCY RANGE GHz	CON- NECTOR	MODEL	NOMINAL COUPLING** dB	DIRECTIVITY dB		INSERTION LOSS EXCLUDING COUPLED POWER		VSWR		FREQUENCY* SENSITIVITY dB	MAXIMUM DEVIATION from NOMINAL dB	POWER		WEIGHT	
				0.5-12.4	12.4-18	COUPLED POWER	TRUE (max)	PRIMARY LINE (max)	SECONDARY LINE (max)			AVG. PEAK Watts	kW	(max) oz	gr
0.5-18	SMA	4226-10	10	15	12	0.85	1.5	1.5	1.5	±1.1	±1.0	20	3	3.4	97
	SMA	4226-20	20	15	12	0.85	0.9	1.5	1.5	±1.1	±1.0	20	3	3.4	97

*4226 Series coupling **excludes** frequency sensitivity from coupling variation specification. For other models, frequency sensitivity is included in coupling variation.

**Coupling is referenced to the output port.



Outline Drawing



MODEL	A	B	C	D	E	F	G	H	K	L	"J" HOLES
3202B-10	3.24	.88	1.10	1.12	1.000	.71	.48	2.717	.28	.57	.104 ^{+.004} _{-.002}
4202B-6, -10	3.24	.88	0.38	1.12	1.000	.71	.48	2.717	.28	.57	
3202B-20	3.48	.73	1.10	.58	2.319	.62	.44	2.943	.28	.56	
4202B-20	3.48	.73	.38	.58	2.319	.62	.44	2.943	.28	.56	
3203-16	2.12	.73	1.23	.58	0.958	.37	.43	1.584	.28	.56	2-56 NC-2B Tapped Holes 1/8 DP Both Sides
4203-16	2.12	.73	.38	.58	0.958	.37	.43	1.584	.28	.56	
3222-16	3.51	.73	1.23	.75	2.000	.36	.44	2.969	.27	.54	4-40 NC-2B Tapped Holes 1/8 DP Both Sides
4222-16	3.51	.73	.38	.75	2.000	.36	.44	2.969	.27	.54	
4203-6	2.16	.89	.38	.52	1.125	.44	.50	1.615	.28	.56	
4203-10	2.16	.89	.38	.52	1.125	.44	.50	1.615	.28	.56	
4226-10, -20	4.40	.77	.38	.77	2.906	.39	.50	3.900	.28	.57	



All dimensions are max. unless otherwise specified.