

## Power Combiners / Dividers

### Rx POWER DIVIDERS AND Tx HYBRIDS (COMBINERS / SPLITTERS)

- Stock 2 and 4 Way with SMA and N Connectors
- Excellent Phase Balance and Minimum Group Delay
- Exceptionally High Isolation, Low VSWR and Insertion Loss



### SPECIFICATIONS

#### High Power Quadrature Hybrids (Splitter / Combiners) with Type "N" Connectors

FREQUENCY RANGE MHz	MODEL NUMBER	COUPLING (Nominal dB)	VSWR (Max)	ISOLATION dB (Min)	AMP BAL dB	PHASE BAL (Degrees)	POWER		WEIGHT	
							AVG Watts	PEAK kW	Oz	Gr
820-980	3322	3	1.25	20	±0.2	5°	500	10	21.2	600
950-2000	3032	3	1.35	17	±0.25	5°	50	5	1.5	42

#### Medium Power Quadrature Hybrids (Splitter / Combiners) with SMA Connectors

FREQUENCY RANGE MHz	MODEL NUMBER	COUPLING (Nominal dB)	VSWR (Max)	ISOLATION dB (Min)	AMP BAL dB	PHASE BAL (Degrees)	POWER		WEIGHT	
							AVG Watts	PEAK kW	Oz	Gr
500-1000	4031	3 <sup>+2</sup> <sub>-0</sub>	1.25	20	±0.5	2°	50	5	1.4	40
1000-2000	4032C	3 <sup>+2</sup> <sub>-0</sub>	1.20	20	±0.75	4°	50	5	0.7	20

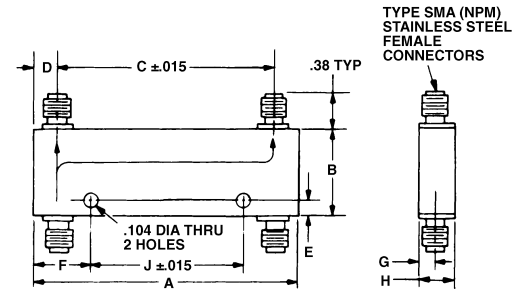
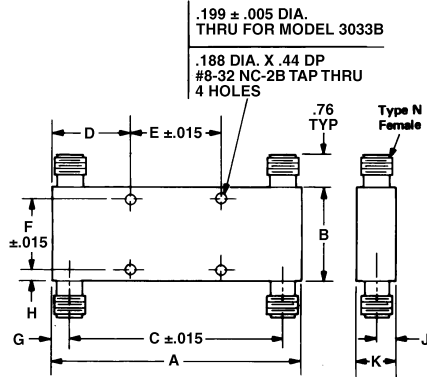
#### 2 and 4 Way In-Phase Rx Power Dividers with SMA Connectors

FREQUENCY RANGE MHz	MODEL NUMBER	VSWR (Max)		INSERTION LOSS dB (Max)	ISOLATION dB (Min)	AMP BAL dB	PHASE BAL Degrees (Max)	MAX AVERAGE POWER (W)* Into Load VSWR of			WEIGHT	
		INPUT (Max)	OUTPUT (Max)					<1.2:1	<2:1	∞	Oz	Gr
500-2500	4322-2	1.35	1.15	0.30	18	0.2	2.0	30	10	1	2.0	55
500-2500	4322-4	1.45	1.25	0.70	20	0.3	4.0	30	10	1	5.8	165
500-1000	4311B-2	1.25	1.15	0.40	22	0.2	0.2	30	20	3	1.1	30
1000-2000	4312B-2	1.25	1.15	0.35	20	0.2	2.0	30	20	3	0.9	23
500-2000	4321B-2	1.25	1.15	0.60	22	0.2	2.0	30	20	3	1.1	30
500-1000	4311C-4	1.45	1.30	0.90	22	0.3	3.0	30	10	1	2.9	80
500-2000	4312C-4	1.40	1.25	0.80	20	0.3	3.0	30	10	3	2.0	56
500-2000	4321C-4	1.45	1.30	1.00	27.5	0.1	1.5	30	10	1	2.9	80
800-2200	4325-2	1.25	1.15	0.60	23	0.2	2.0	30	10	1	1.1	30
800-2200	4325-4	1.25	1.20	0.90	22	0.3	3.0	30	10	1	2.8	80

\*IMPORTANT: Maximum Average Power is applicable only with coherent frequencies (same frequency each channel and in phase) otherwise derate to VSWR ∞ power rating.

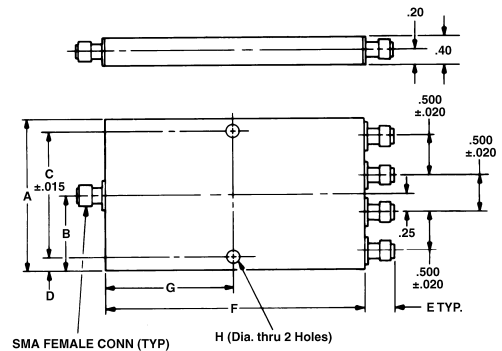
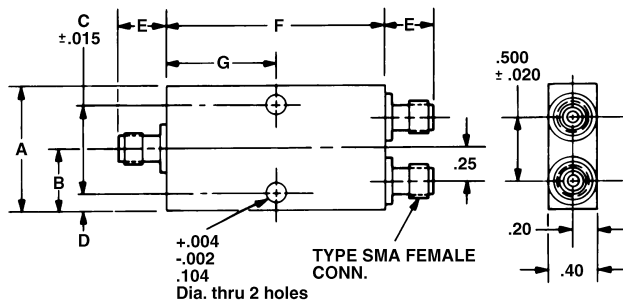
# Power Combiners / Dividers

## OUTLINE DRAWINGS



MODEL	A	B	C	D	E	F	G	H	J	K
3032	5.51	2.11	4.75	1.77	2.00	1.605	.38	.27	.44	.88
3322	5.51	2.60	3.30	.15	5.21	2.30	1.10	.15	.53	1.06

MODEL NO.	MAXIMUM DIMENSIONS								
	A	B	C ±.015	D	E	F	G	H	J ±.015
4031C	3.06	.51	2.562	.25	.10	.85	.20	.39	1.375
4032C	1.77	.51	1.281	.25	.10	.64	.19	.39	.500



MODEL	A	B	C	D	E	F	G
4311B-2	1.38	.69	1.146	.12	.38	1.24	.62
4312B-2	1.30	.65	1.068	.12	.38	.92	.46
4321B-2	1.38	.69	1.146	.12	.38	1.24	.62
4322-2	1.74	.87	1.512	.12	.38	1.60	.80
4325-2	1.38	.69	1.146	.12	.38	1.24	.62

MODEL	A	B	C	D	E	F	G	H
4311C-4	2.38	1.19	2.153	.12	.38	2.15	1.07	.104 <sup>+.004</sup> THRU 2 HOLES <sup>-.002</sup>
4312C-4	2.30	1.15	2.070	.12	.38	1.48	.74	.104 <sup>+.004</sup> THRU 2 HOLES <sup>-.002</sup>
4321C-4	2.38	1.19	2.153	.12	.38	2.15	1.07	.104 <sup>+.004</sup> THRU 2 HOLES <sup>-.002</sup>
4322-4	3.03	1.51	2.760	.14	.38	3.09	.17	.125 ±.005 THRU 4 HOLES
4325-4	2.38	1.19	2.153	1.2	.38	2.15	1.07	.104 <sup>+.004</sup> THRU 2 HOLES <sup>-.002</sup>