



COMBINERS/DIVIDERS, HIGH POWER, MULTI-PORT, COAXIAL, IN PHASE

DATA SHEET
No. B99

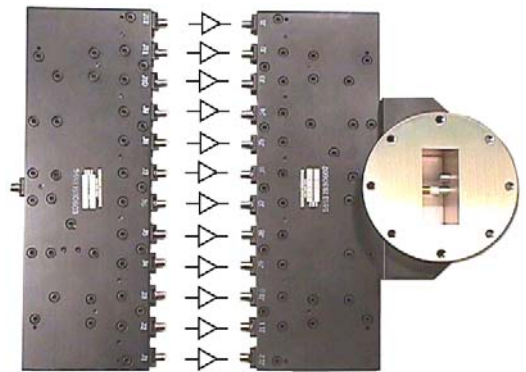
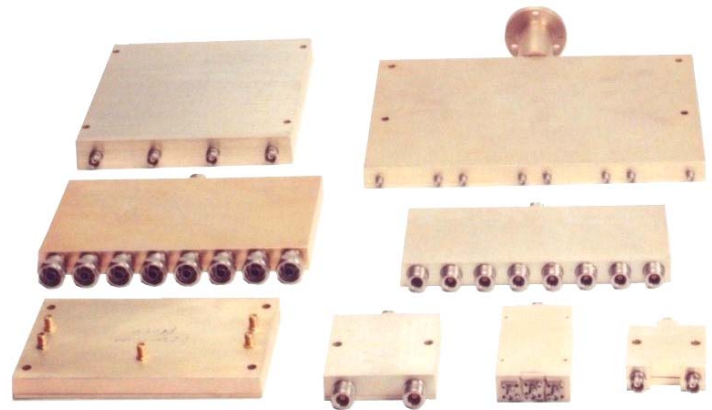
- HIGH POWER
- LOW LOSS
- COMPACT SIZE
- RUGGED CONSTRUCTION

DESCRIPTION

These stripline combiners are of a Wilkinson type, in phase components. They are used as feeds in antenna arrays, or to combine several lower power TWT's or solid-state sources into an effectively higher power source, or any other applications requiring precise summing or dividing of high RF power. A matching low-power divider is available which can be used at the driver stage to the amplifiers.

The 507-series consists of high power 2:1 combiners or 1:2 dividers, equal-amplitude and in-phase. Similarly, the 630-series consists of N-way combine or divide networks.

The table below lists available combiners and dividers by model number and frequency. For electrical specifications, and dimensional information refer to the individual data sheets. Additional data is available upon request. The models listed in the table are only a representative sample of MEC's capabilities. Contact MEC with your specific requirements.



MODEL NUMBER	TYPE (N-WAY)	FREQUENCY RANGE (GHz)	POWER TOTAL		VSWR (MAX)	INSERTION LOSS TOTAL (dB)	PHASE BALANCE +/-	ISOLATION (MIN) (dB)	DIMENSIONS (INCHES)		
			Pk (KW)	AVE. (W)					L	W	H
B507-122	2 :1	.40-.45	1.0	150	1.2:1	0.15	2°	2.0	4.0	4.0	0.7
D507-4	2 :1	1.2-1.4	0.5	150	1.25:1	.25	3°	20	13.5	0.5	1
EF507-123	2 :1	2.7-3.5	0.5	150	1.5:1	0.4	3°	15	3.2	3.0	0.7
C507-118	2 :1	9.4-9.8	0.1	1.0	1.3:1	0.3	1°	2.5	1.3	1.0	0.2
D630-29	3:1	1.7-1.9	1.0	200	1.15:1	0.15	2°	16	3.6	2.0	0.8
C630-15	4:1	0.9-0.93	1.0	150	1.15:1	0.15	2°	16	6.7	4.0	0.6
D630-5	4 :1	1.2-1.4	0.5	50	1.25:1	0.3	3°	-	7.5	5	1
D630-12	4 :1	1.4-1.6	1.0	300	1.2:1	0.5	3°	18	5.7	5.0	0.7
B630-13	5:1	0.4-0.6	40	800	1.2 :1	0.1	2°	20	9.6	8.5	1.0
C630-10	5 :1	9.5-9.7	0.1	1.0	1.3:1	0.3	1°	25	3.2	2.5	0.2
B630-14	6 :1	0.1-0.6	40	800	1.2:1	.10	2°	20	11.4	9.3	1.0
C630-4	8 :1	.80-.90	1.0	500	1.3:1	1.0	3°	17	16.1	5.8	1.7
C630-12	8 :1	1.2-1.4	2.0	500	1.2:1	0.5	2°	18	11	7.0	0.7
D630-3	2:1:8	1.2-1.4	7.0	300	1.3:1	0.75	6°	20	21.5	9.0	1.0
E630-6	8 :1	3.0-3.6	3.0	250	1.8:1	0.65	5°	11	8.0	4.5	0.7

ORDERING INFORMATION

- (1) Specify frequency, power environment and any other special requirements.
- (2) Specify connectors. Refer to connector chart data sheet number T-100. Power handling is usually limited by the RF connectors used

