

90° HYBRIDS - 2:1 TO 4:1 BANDWIDTH

Hybrids
90° & 180°

Bandwidth	Frequency Range (MHz)	Insertion Loss (dB) max.	Isolation (dB) min.	Amplitude Balance (dB) max.	Phase Balance (Deg) max.	VSWR max.	P/N
2:1	10-20	0.5	25	0.6	2.0	1.20:1	Q2-01-*
2:1	15-30	0.5	25	0.6	2.0	1.20:1	Q2-02-*
2:1	20-40	0.5	25	0.6	2.0	1.20:1	Q2-03-*
2:1	30-60	0.5	25	0.6	2.0	1.20:1	Q2-04-*
2:1	40-80	0.5	25	0.6	2.0	1.20:1	Q2-05-*
2:1	50-100	0.5	23	0.6	2.0	1.20:1	Q2-06-*
2:1	60-120	0.5	23	0.6	2.0	1.30:1	Q2-07-*
2:1	70-140	0.5	22	0.6	2.0	1.30:1	Q2-08-*
2:1	80-160	0.5	22	0.6	2.0	1.30:1	Q2-09-*
2:1	90-180	0.5	20	0.6	2.0	1.30:1	Q2-10-*
2:1	100-200	0.5	20	0.8	3.0	1.40:1	Q2-11-*
2:1	150-300	0.6	20	0.8	3.0	1.40:1	Q2-12-*
2:1	200-400	0.7	18	0.8	3.0	1.40:1	Q2-13-*
2:1	300-600	0.8	18	1.0	5.0	1.50:1	Q2-14-*
3:1	5-15	0.6	25	1.0	2.0	1.30:1	Q3-01-*
3:1	10-30	0.6	23	1.0	2.0	1.30:1	Q3-02-*
3:1	20-60	0.6	23	1.0	3.0	1.30:1	Q3-03-*
3:1	40-120	0.6	20	1.2	3.0	1.30:1	Q3-04-*
3:1	80-240	0.6	20	1.2	4.0	1.30:1	Q3-05-*

* Available in outline # 102, 301, 412, & C

SMA female connectors standard on outline # 412, refer to page 98 for more information.

Notes: Power rating 1 watt max. for load VSWR better than 1.20:1.
Higher power models available, please consult factory.

Port Configuration

Outline	Input	90° Output	0° Output	Isolated	Ground
102	1	2	5	6	3,4,7,8
301	1	5	8	4	2,3,6,7
412	1	4	2	3	Housing 4 Corners
C	1	4	3	2	Housing 4 Corners

