



Couplers

3 dB 90° Hybrid couplers

Frequency (GHz)	Amplitude Balance (dB)	Phase Balance	Input Power (W)		Max Insertion Loss (dB) Attenuation (dB)	Min Isolation (dB)	VSWR max.	Connectors main / coupled	Part Number
			Ave. ⁽¹⁾	Peak ⁽²⁾					
0.15 - 0.3	± 0.5	90° ± 0.5°	500	5,000	0.3	30	1.15	N f / N f	R432 171 000
0,25 - 0.5	± 0.5	90° ± 5°	500	5,000	0.3	30	1.15	N f / N f	R432 271 000
0.5 - 1	± 0.5	90° ± 5°	300	5,000	0.3	25	1.15	N f / N f	R432 371 000
1 - 2	± 0.5	90° ± 5°	100	3,000	0.3	25	1.2	SMA f / SMA f	R432 431 000
1 - 2	± 0.5	90° ± 5°	200	5,000	0.3	25	1.2	N f / N f	R432 471 000
2 - 4	± 0.5	90° ± 5°	80	3,000	0.3	23	1.2	SMA f / SMA f	R432 531 000
2 - 4	± 0.5	90° ± 5°	80	3,000	0.3	20	1.2	N f / N f	R432 571 000
4 - 8	± 0.5	90° ± 5°	50	3,000	0.3	19	1.25	SMA f / SMA f	R432 631 000
7 - 12,4	± 0.5	90° ± 6°	30	3,000	0.4	18	1.35	SMA f / SMA f	R433 721 700
6 - 18	± 0.6	90° ± 6°	30	3,000	0.6	15	1.5	SMA f / SMA f	R433 611 700
12,4 - 18	± 0.7	90° ± 6°	30	3,000	0.6	16	1.4	SMA f / SMA f	R433 831 700

⁽¹⁾ at 25°C

⁽²⁾ at 25°C (1us - duty cycle 1%)

Directional couplers (all directional couplers are loaded with SMA 50 Ohms termination)

Frequency (GHz)	Amplitude Balance (dB)	Phase Balance	Input Power (W)		Max Insertion Loss ⁽³⁾ (dB) Attenuation (dB)	Directivity (dB)	VSWR max. ⁽⁴⁾	Connectors main / coupled	Part Number
			Ave. ⁽¹⁾	Peak ⁽²⁾					
0.15 - 0.3	6 ± 0.3	± 0.8	500	5,000	2	30	1.10 / 1.10	N f / N f	R432 172 000
0.15 - 0.3	10 ± 0.3	± 0.8	500	5,000	1	30	1.10 / 1.10	N f / N f	R432 173 000
0.15 - 0.3	20 ± 0.3	± 0.8	500	5,000	0.4	30	1.10 / 1.10	N f / N f	R432 174 000
0.15 - 0.3	30 ± 0.3	± 0.8	500	5,000	0.4	30	1.10 / 1.10	N f / N f	R432 175 000
0.25 - 0.5	10 ± 0.3	± 0.8	500	5,000	1	30	1.12 / 1.12	N f / N f	R432 273 000
0.25 - 0.5	20 ± 0.3	± 0.8	500	5,000	0.4	30	1.12 / 1.12	N f / N f	R432 274 000
0.25 - 0.5	30 ± 0.3	± 0.8	500	5,000	0.4	30	1.12 / 1.12	N f / N f	R432 275 000
0.5 - 1	6 ± 0.3	± 0.8	300	5,000	2	25	1.15 / 1.15	N f / N f	R432 372 000
0.5 - 1	10 ± 0.3	± 0.8	300	5,000	1	27	1.15 / 1.15	N f / N f	R432 373 000
0.5 - 1	20 ± 0.3	± 0.8	300	5,000	0.4	27	1.15 / 1.15	N f / N f	R432 374 000
0.5 - 1	30 ± 0.3	± 0.8	300	5,000	0.4	27	1.15 / 1.15	N f / N f	R432 375 000
1 - 2	6 ± 1.1	± 0.8	100	3,000	1.8	23	1.20 / 1.20	SMA f / SMA f	R432 432 000
1 - 2	10 ± 0.3	± 0.8	100	3,000	1	23	1.15 / 1.15	SMA f / SMA f	R432 433 000
1 - 2	20 ± 0.3	± 0.8	100	3,000	0.4	23	1.15 / 1.15	SMA f / SMA f	R432 434 000
1 - 2	30 ± 0.3	± 0.8	100	3,000	0.4	23	1.15 / 1.15	SMA f / SMA f	R432 435 000
1 - 2	6 ± 0.3	± 0.6	200	5,000	2.25	23	1.15 / 1.15	N f / N f	R432 472 000
1 - 2	10 ± 0.3	± 0.8	200	5,000	1	23	1.15 / 1.15	N f / N f	R432 473 000
1 - 2	20 ± 0.3	± 0.8	200	5,000	0.4	23	1.15 / 1.15	N f / N f	R432 474 000
1 - 2	30 ± 1.1	± 0.8	200	5,000	0.4	23	1.15 / 1.15	N f / N f	R432 475 000
2 - 4	10 ± 0.3	± 0.8	80	3,000	1	20	1.15 / 1.15	SMA f / SMA f	R432 533 000