



Power Splitter/Combiner

Features

- low insertion, 0.8 dB typ.
- excellent amplitude unbalance, 0.3 dB typ.
- very good phase unbalance, 1.0 deg. typ.
- external resistor required
- aqueous washable
- leads for excellent solderability
- low cost

Applications

- cellular
- PCN
- GPS

Electrical Specifications at 25°C

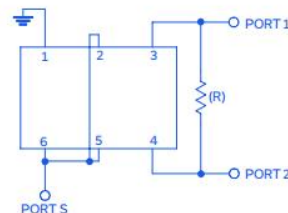
Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit
Frequency Range	-	1000		3000	Mhz
Insertion Loss, above 3.0 dB	1000-3000	-	0.8	1.9	dB
Isolation	1000-3000	15	18	-	dB
Phase Unbalance	1000-3000	-	-	5.0	Degree
Amplitude Unbalance	1000-3000	-	-	0.9	dB

JY-TCP-2-33+



2 Way-0° 50Ω 1000 to 3000 MHz

FUNCTIONAL SCHEMATIC

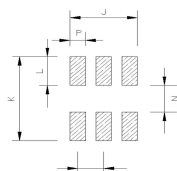
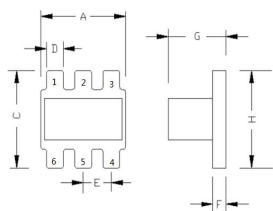


Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

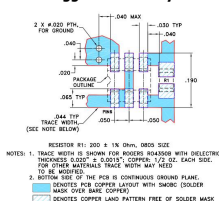
Freq.(MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation(dB)	PhaseUnbal.(deg.)	VSWRS		
	S-1	S-2				S	1	2
1000	3.65	3.76	0.11	17.21	0.35	1.90	1.42	1.45
1200	3.65	3.80	0.15	18.46	0.37	1.88	1.47	1.49
1400	3.65	3.85	0.20	19.93	0.41	1.82	1.52	1.58
1600	3.67	3.90	0.23	21.66	0.50	1.76	1.56	1.59
1700	3.68	3.93	0.25	22.55	0.53	1.74	1.58	1.61
1800	3.70	3.96	0.26	23.43	0.59	1.73	1.61	1.64
1900	3.71	3.99	0.28	24.14	0.65	1.71	1.63	1.67
2000	3.73	4.02	0.29	24.63	0.74	1.69	1.66	1.71
2100	3.75	4.05	0.30	24.78	0.82	1.68	1.69	1.73
2200	3.78	4.10	0.31	24.68	0.91	1.68	1.73	1.76
2300	3.82	4.15	0.32	23.60	0.97	1.68	1.76	1.79
2400	3.87	4.21	0.34	23.80	1.16	1.67	1.80	1.85
2600	3.93	4.29	0.35	21.94	1.29	1.68	1.88	1.89
2800	4.02	4.40	0.38	20.24	1.55	1.72	1.94	1.97
3000	4.12	4.53	0.41	18.75	1.83	1.79	2.05	2.06

Outline Drawing

PCB Land Pattern



Suggested PCB Layout



Pin Connections

SUM PORT	2, 5, 6
PORT 1	3
PORT 2	4
GND	1
EXT.RESISTOR 200Ω	3,4

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

Outline Dimensions (mm)

A	3.81	N	1.53
B	-	M	1.27
C	3.81	P	0.76
D	0.76	H	3.81
E	1.27	J	3.30
F	0.61	K	4.83
G	2.61	L	1.65

