

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

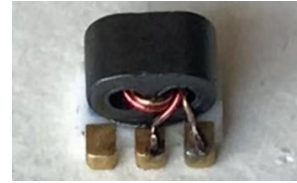
Applications

- cellular
- PCN
- GPS

Electrical Specifications at 25°C

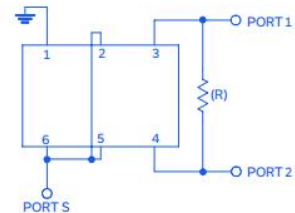
Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit
Frequency Range	-	1000		3000	Mhz
Insertion Loss, above 3.0 dB	1000-3000	-	0.8	1.9	dB
Isolation	1000-3000	15	18	-	dB
Phase Unbalance	1000-3000	-	-	5.0	Degree
Amplitude Unbalance	1000-3000	-	-	0.9	dB

JY-TCP-2-33X+



2 Way-0° 50Ω 1000 to 3000 MHz

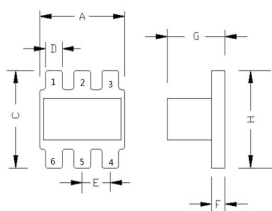
FUNCTIONAL SCHEMATIC



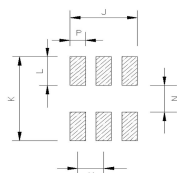
Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

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

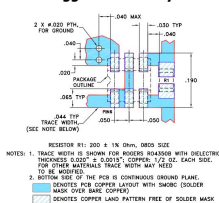
Outline Drawing



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

