

Power Splitter/Combiner

Features

- wideband, DC to 6000 MHz,
- good matching VSWR 1.3:1 typ.
- good amplitude unbalance, 0.4 dB typ.

Applications

- communication systems
- CATV
- cellular, GPS, PCS
- VHF/UHF/receivers/transmitters

JY-SRSC-4-63+



4 Way-0° Resistive 50Ω DC to 6000 MHz

Electrical Specifications at 25°C

Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit
Frequency Range			-	6000	MHz
Insertion Loss, including 12 dB	DC-6000 3600-6000	11.5 11.5	12.0 12.5	13.2 14.0	dB
Isolation	DC-6000	-	7	-	dB
Phase Unbalance	DC-6000 3600-6000	- -	3 8	8 14	Degree
Amplitude Unbalance	DC-6000 3600-6000	- -	0.4 0.7	0.8 1.2	dB
VSWR (Port S)	DC-6000	-	1.35	1.65	:1
VSWR (Port 1-4)	DC-6000	-	1.30	1.60	:1

electrical schematic



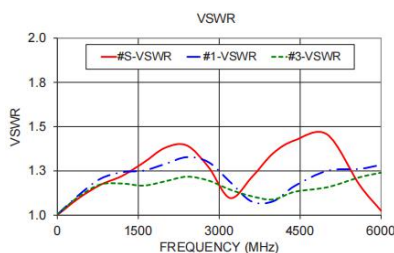
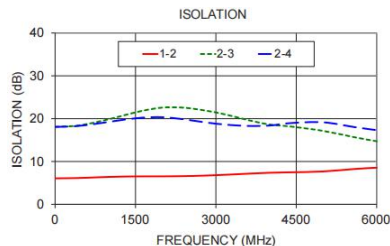
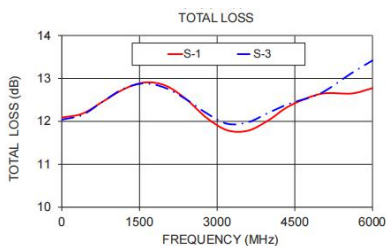
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.2W max.
Internal Dissipation	0.15W max.

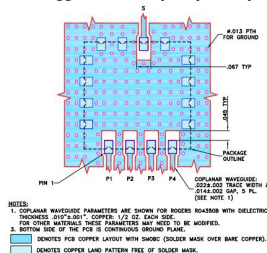
Permanent damage may occur if any of these limits are exceeded.

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

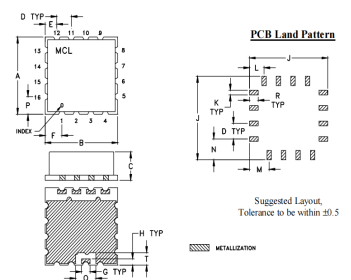
Freq. (MHz)	Total Loss (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWRS			
	S-1	S-2	S-3		1-2	2-3 4	2-4		S	1	2	3
1	12.09	12.08	12.04	0.05	6.06	18.08	18.09	0.30	1.00	1.00	1.00	1.01
400	12.18	12.18	12.15	0.03	6.13	18.35	18.26	0.44	1.10	1.11	1.11	1.11
800	12.47	12.50	12.47	0.04	6.31	19.27	18.87	1.25	1.17	1.21	1.19	1.17
1200	12.75	12.83	12.77	0.08	6.46	20.50	19.60	2.18	1.22	1.24	1.21	1.18
1600	12.90	13.00	12.88	0.15	6.52	21.76	20.20	3.10	1.30	1.25	1.19	1.17
2000	12.83	12.96	12.78	0.31	6.53	22.58	20.34	3.41	1.38	1.29	1.23	1.19
2400	12.52	12.72	12.51	0.43	6.58	22.56	19.85	3.28	1.39	1.33	1.28	1.22
2800	12.08	12.34	12.19	0.43	6.71	21.90	19.13	2.97	1.27	1.30	1.27	1.20
3200	11.79	12.03	11.94	0.34	6.91	20.91	18.59	3.06	1.10	1.19	1.23	1.14
3600	11.78	12.07	11.98	0.28	7.15	19.66	18.30	3.81	1.21	1.08	1.13	1.11
4000	12.03	12.39	12.20	0.36	7.37	18.63	18.39	4.85	1.35	1.08	1.12	1.09
4400	12.36	12.71	12.41	0.35	7.48	18.16	18.97	5.91	1.42	1.17	1.11	1.13
5000	12.64	12.95	12.65	0.39	7.68	17.15	19.15	7.06	1.46	1.25	1.12	1.16
5600	12.65	13.05	13.13	0.49	8.26	15.62	18.00	8.66	1.17	1.26	1.21	1.21
6000	12.77	13.11	13.42	0.68	8.55	14.72	17.32	8.39	1.02	1.28	1.29	1.24



Demo Board MCL P/N: TB-816+ Suggested PCB Layout (PL-445)



Outline Drawing



Outline Dimensions: Unit (mm)

A	12.70	B	12.70
C	4.70	D	2.54
E	2.03	F	2.92
G	0.76	H	1.02
J	13.72	K	0.76
L	2.54	M	3.43
N	3.43	P	2.92
Q	3.56	R	1.52
T	2.03	wt	1.0g