

Surface Mount Power Splitter/Combiner

JS4PS-1W-75

4 Way-0° 75Ω

5 to 750 MHz



CASE STYLE: BJ360
PRICE: \$18.95 ea. QTY (1-9)

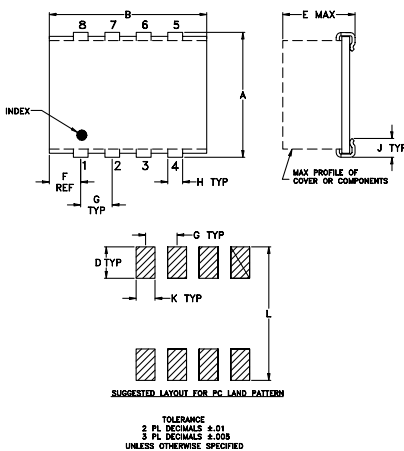
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.25W max.
Internal Dissipation	0.25W max.

Pin Connections

SUMPORT	2
PORT 1	8
PORT 2	7
PORT 3	6
PORT 4	5
GROUND	1,3,4

Outline Drawing

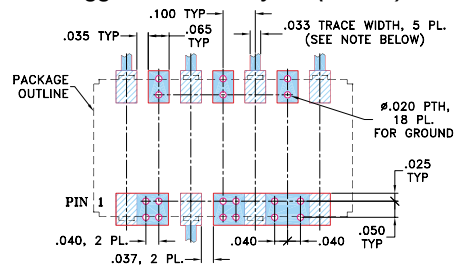


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.450	.800	--	.100	.250	.100	.200
11.43	20.32	--	2.54	6.35	2.54	5.08

H	J	K	L	wt
.047	.065	.065	.480	grams
1.19	1.65	1.65	12.19	1.7

Demo Board MCL P/N: TB-218 Suggested PCB Layout (PL-149)



NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS 0.030 ± 0.002 , COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- high isolation, 35 dB typ.
- excellent input matching, VSWR 1.2 typ.
- very good output matching, VSWR 1.15 typ.
- excellent amplitude unbalance, 0.3 dB typ.
- aqueous washable
- shielded case

Applications

- catv
- VHF/UHF
- communications systems
- instrumentation

Splitter Electrical Specifications

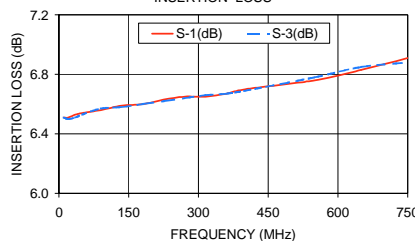
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 6 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
f_L - f_U	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max.	Max.	Max.	Max.	Max.	Max.						
5-750	34	25	35	25	30	18	0.6	1.2	0.6	1.5	0.8	1.5	3	5	6	0.2	0.3	0.6

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

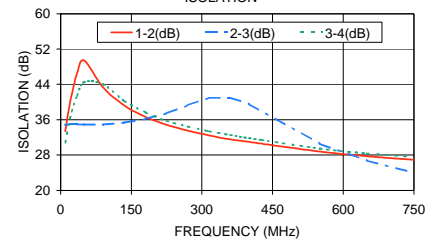
Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
5.00	6.51	6.53	6.51	6.52	0.02	33.42	34.84	30.80	0.13	1.12	1.23	1.23	1.26	1.25
20.00	6.51	6.51	6.51	6.50	0.01	39.75	34.95	36.28	0.13	1.10	1.20	1.20	1.22	1.21
35.00	6.53	6.53	6.51	6.52	0.02	46.54	34.94	41.41	0.13	1.10	1.20	1.20	1.21	1.21
50.00	6.54	6.54	6.53	6.53	0.02	49.42	34.89	44.53	0.19	1.10	1.20	1.20	1.20	1.21
90.00	6.56	6.58	6.57	6.56	0.02	43.36	34.93	44.03	0.22	1.11	1.20	1.20	1.20	1.21
135.00	6.59	6.58	6.58	6.61	0.03	39.24	35.35	40.26	0.29	1.11	1.20	1.20	1.20	1.20
180.00	6.60	6.61	6.60	6.58	0.03	36.65	36.16	37.67	0.25	1.12	1.19	1.19	1.19	1.20
225.00	6.63	6.62	6.62	6.63	0.01	34.85	37.45	35.74	0.41	1.13	1.19	1.18	1.18	1.20
270.00	6.65	6.65	6.64	6.62	0.04	33.54	39.30	34.49	0.50	1.14	1.17	1.17	1.17	1.19
315.00	6.65	6.65	6.66	6.64	0.02	32.46	40.95	33.40	0.60	1.16	1.16	1.16	1.16	1.18
360.00	6.67	6.68	6.67	6.66	0.03	31.56	40.98	32.54	0.66	1.17	1.16	1.15	1.15	1.18
400.00	6.70	6.70	6.69	6.66	0.04	30.98	39.58	31.85	0.61	1.18	1.15	1.14	1.14	1.17
550.00	6.76	6.78	6.78	6.74	0.03	28.79	30.55	29.48	0.96	1.22	1.13	1.12	1.12	1.15
650.00	6.83	6.85	6.85	6.81	0.04	27.77	26.75	28.36	0.46	1.21	1.13	1.12	1.11	1.14
750.00	6.91	6.91	6.88	6.80	0.11	26.92	23.96	27.58	0.28	1.19	1.14	1.14	1.12	1.15

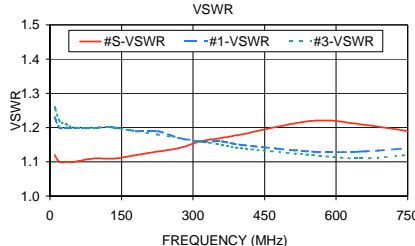
JS4PS-1W-75
INSERTION LOSS



JS4PS-1W-75
ISOLATION



JS4PS-1W-75
VSWR



electrical schematic

