

Surface Mount Power Splitter/Combiner

2 Way-0° 50Ω 1700 to 2500 MHz

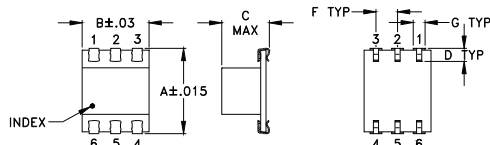
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

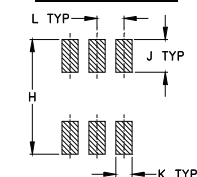
Pin Connections

SUM PORT	6
PORT 1	4
PORT 2	3
GROUND	1,2,5

Outline Drawing



PCB Land Pattern

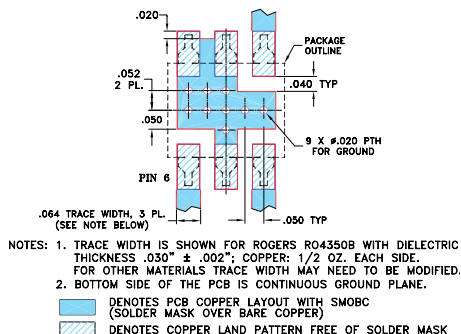


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.390	.31	.225	.060	--	.100	.045
9.91	7.87	5.72	1.52	--	2.54	1.14
H	J	K	L	M		wt
.420	.120	.060	.100	--		grams
10.67	3.05	1.52	2.54	--		0.50

Demo Board MCL P/N: TB-100 Suggested PCB Layout (PL-057)



Features

- low insertion loss, 0.8 dB typ.
- good isolation, 20 dB typ.
- aqueous washable
- J-leads for strain relief and excellent solderability

Applications

- PCS
- DCS
- ISM
- communications systems

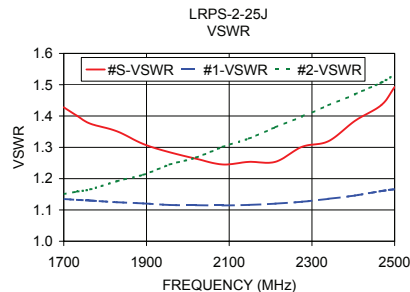
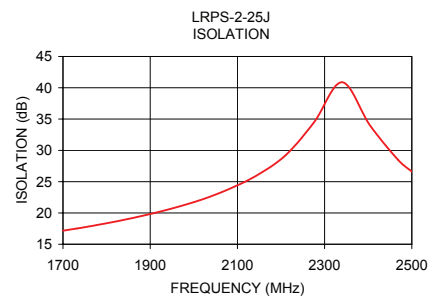
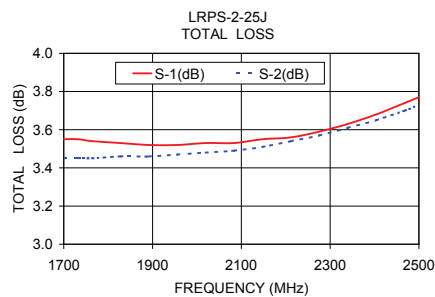
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 3.0 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
$f_L - f_U$	Typ. Min.	Typ. Max.	Max.	Max.
1700-2500	20 16	0.8 1.3	10	0.9

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1 S-2						
1700.00	3.55 3.45	0.10	17.17	1.63	1.43	1.14	1.15
1732.00	3.55 3.45	0.10	17.52	1.55	1.40	1.13	1.16
1764.00	3.54 3.45	0.09	17.89	1.53	1.38	1.13	1.17
1828.00	3.53 3.46	0.07	18.73	1.43	1.35	1.12	1.19
1892.00	3.52 3.46	0.07	19.69	1.24	1.31	1.12	1.21
1956.00	3.52 3.47	0.05	20.83	1.13	1.28	1.12	1.25
2020.00	3.53 3.48	0.05	22.18	0.94	1.26	1.12	1.27
2084.00	3.53 3.49	0.04	23.91	0.75	1.25	1.11	1.30
2148.00	3.55 3.51	0.04	26.14	0.50	1.25	1.12	1.33
2212.00	3.56 3.54	0.02	29.31	0.34	1.25	1.12	1.36
2276.00	3.59 3.57	0.03	34.50	0.11	1.30	1.13	1.40
2340.00	3.63 3.61	0.03	40.88	0.21	1.32	1.14	1.43
2404.00	3.68 3.65	0.03	34.00	0.40	1.38	1.15	1.47
2468.00	3.74 3.70	0.03	28.52	0.79	1.44	1.16	1.51
2500.00	3.77 3.73	0.03	26.61	0.93	1.49	1.17	1.53

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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LRPS-2-25J+
LRPS-2-25J



CASE STYLE: QQQ569
PRICE: \$21.95 ea. QTY. (10-49)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications