

Surface Mount Power Splitter/Combiner

LRPS-2-1W-75+ LRPS-2-1W-75

2 Way-0° 75Ω 10 to 650 MHz



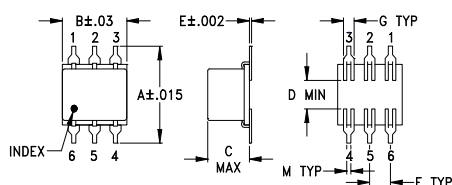
Maximum Ratings

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.	

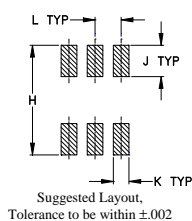
Pin Connections

SUM PORT	6
PORT 1	4
PORT 2	3
GROUND	1
NOT USED	2,5

Outline Drawing



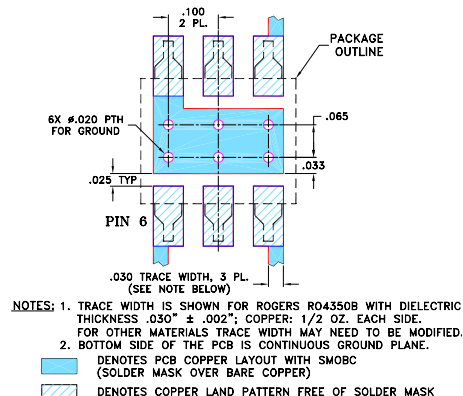
PCB Land Pattern



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.400	.31	.200	.10	.010	.100	.050
10.16	7.87	5.08	2.54	0.25	2.54	1.27
H	J	K	L	M	wt	
.420	.120	.060	.100	.020	grams	
10.67	3.05	1.52	2.54	0.51	0.55	

Demo Board MCL P/N: TB-221 Suggested PCB Layout (PL-235)



Features

- low insertion loss, 0.6 dB typ.
- high isolation, 29 dB typ.

Applications

- VHF/UHF
- communications systems
- CATV

CASE STYLE: QQQ130
PRICE: \$9.95 ea. QTY. (10-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Electrical Specifications

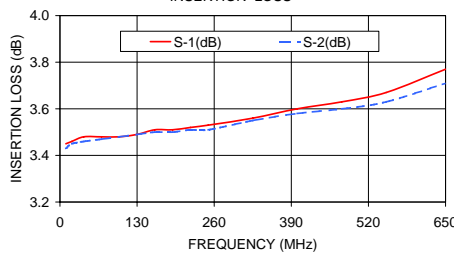
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
$f_c - f_u$	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-650	28	22	29	24	30	20	0.5	1.0	0.6	0.75	0.6	1.2	1.0	2.0	3.0	0.15	0.2	0.3

L = 10-100 MHz M = 100-325 MHz U = 325-650 MHz

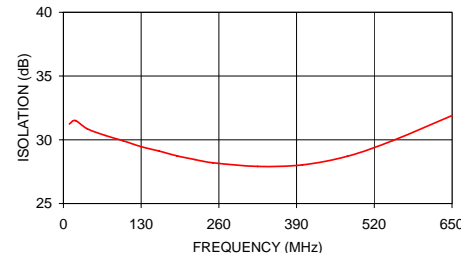
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
10.00	3.45	3.43	0.02	31.24	0.00	1.03	1.29	1.29
20.00	3.46	3.45	0.01	31.51	0.03	1.03	1.28	1.28
40.00	3.48	3.46	0.02	30.86	0.02	1.03	1.29	1.28
70.00	3.48	3.47	0.01	30.34	0.15	1.03	1.28	1.28
100.00	3.48	3.48	0.01	29.92	0.05	1.04	1.28	1.28
130.00	3.49	3.49	0.00	29.46	0.15	1.05	1.27	1.27
160.00	3.51	3.50	0.01	29.12	0.12	1.06	1.26	1.26
190.00	3.51	3.50	0.01	28.74	0.21	1.07	1.24	1.25
220.00	3.52	3.51	0.01	28.45	0.22	1.08	1.23	1.24
250.00	3.53	3.51	0.02	28.20	0.24	1.10	1.22	1.23
325.00	3.56	3.55	0.01	27.91	0.29	1.13	1.19	1.20
400.00	3.60	3.58	0.03	28.03	0.31	1.18	1.17	1.18
475.00	3.63	3.60	0.02	28.71	0.22	1.23	1.16	1.16
550.00	3.67	3.63	0.04	29.92	0.24	1.28	1.16	1.15
650.00	3.77	3.71	0.06	31.90	0.18	1.36	1.21	1.18

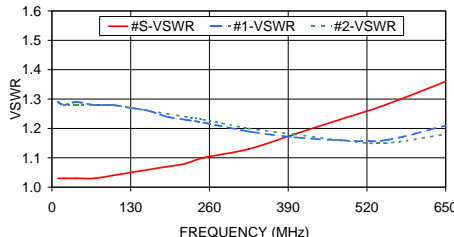
LRPS-2-1W-75
INSERTION LOSS



LRPS-2-1W-75
ISOLATION



LRPS-2-1W-75
VSWR



electrical schematic



For detailed performance specs & shopping online see web site



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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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ED-1514/6
D/JCP
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