

Surface Mount Power Splitter/Combiner

LRPS-2-980+ LRPS-2-980

2 Way-0° 50Ω 800 to 980 MHz



Maximum Ratings

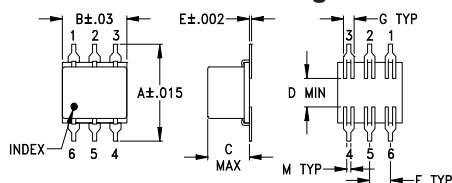
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

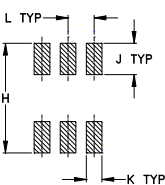
Pin Connections

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

Outline Drawing



PCB Land Pattern

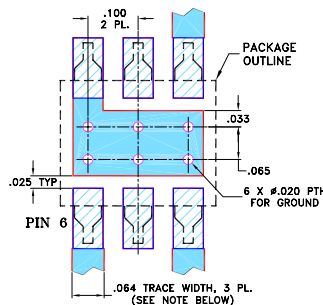


Suggested Layout,
Tolerance to be within ±.002

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-94 Suggested PCB Layout (PL-236)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .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.
3. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- low insertion loss, 0.5 dB typ.
- high isolation, 30 dB typ.

Applications

- cellular

CASE STYLE: QQQ130
PRICE: \$8.95 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.

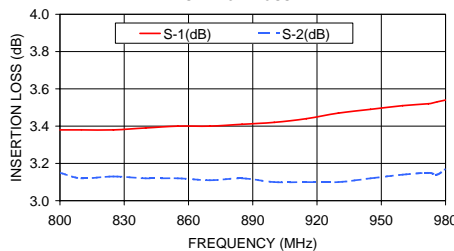
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min	Typ.	Max.	Max.	Max.
$f_c - f_u$	30	18	0.5	1.0	3.0	0.5
800-980						

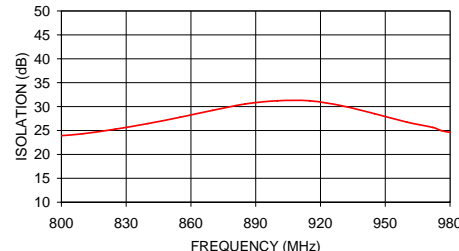
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
800.00	3.38	3.15	0.23	23.91	0.02	1.22	1.09	1.15
810.00	3.38	3.12	0.25	24.32	0.04	1.20	1.09	1.14
825.00	3.38	3.13	0.25	25.28	0.06	1.17	1.08	1.13
840.00	3.39	3.12	0.27	26.45	0.02	1.14	1.07	1.12
855.00	3.40	3.12	0.27	27.78	0.07	1.11	1.06	1.11
870.00	3.40	3.11	0.29	29.20	0.14	1.08	1.06	1.09
885.00	3.41	3.12	0.29	30.54	0.41	1.05	1.06	1.08
900.00	3.42	3.10	0.32	31.21	0.63	1.03	1.06	1.07
915.00	3.44	3.10	0.34	31.21	0.69	1.03	1.07	1.06
930.00	3.47	3.10	0.37	30.16	0.91	1.07	1.09	1.05
945.00	3.49	3.12	0.37	28.51	1.01	1.10	1.10	1.04
960.00	3.51	3.14	0.38	26.75	1.14	1.15	1.12	1.03
972.00	3.52	3.15	0.38	25.64	1.36	1.18	1.13	1.04
976.00	3.53	3.14	0.40	24.96	1.31	1.19	1.14	1.04
980.00	3.54	3.17	0.38	24.61	1.50	1.21	1.14	1.04

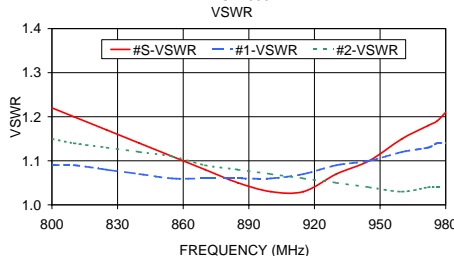
LRPS-2-980
INSERTION LOSS



LRPS-2-980
ISOLATION



LRPS-2-980
VSWR



electrical schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IFIRF MICROWAVE COMPONENTS

For detailed performance specs
& shipping online see web site

REV. OR
M102713
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ED-2213
DJ/TD/CP
090824

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