

Surface Mount

Power Splitter/Combiner

2 Way-0° 50Ω 20 to 2000 MHz

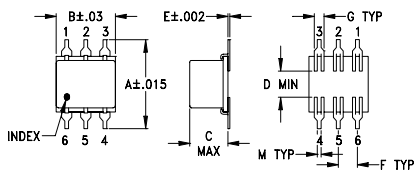
Maximum Ratings

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.

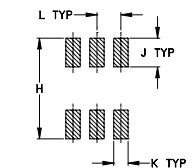
Pin Connections

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

Outline Drawing



PCB Land Pattern



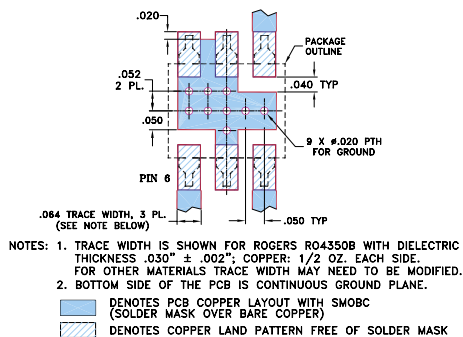
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch mm)

A	B	C	D	E	F	G
.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-100 Suggested PCB Layout (PL-057)



Features

- very wideband, 20 to 2000 MHz
- low insertion loss, 0.7 dB typ.
- good isolation, 21 dB typ.

Applications

- cellular
- GPS
- communications systems



CASE STYLE: QQQ130
PRICE: \$24.95 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.

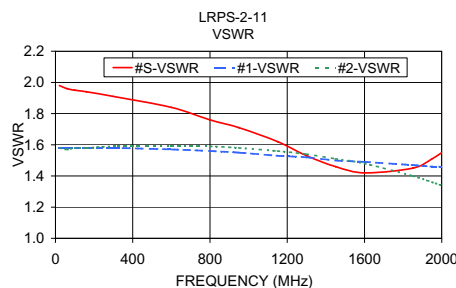
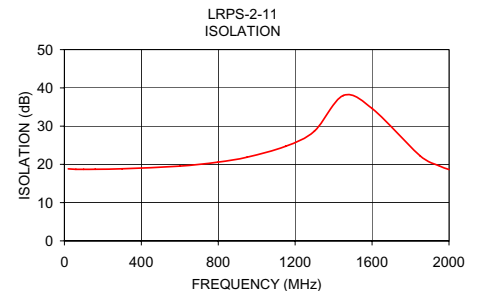
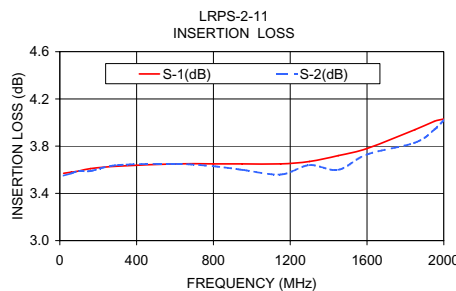
Splitter Electrical Specifications

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	
$f_c - f_u$	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
20-2000	19	15	21	15	30	15	0.6	0.8	0.7	1.0	0.8	1.5	2.0	3.0	5.0	0.2	0.3	0.7

L = 20-200 MHz M = 200-1000 MHz U = 1000-2000 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						
20.00	3.57	3.55	0.01	18.82	0.10	1.98	1.58	1.58
60.00	3.58	3.57	0.01	18.71	0.18	1.96	1.58	1.57
100.00	3.59	3.59	0.01	18.70	0.29	1.95	1.58	1.58
160.00	3.61	3.59	0.02	18.72	0.45	1.94	1.58	1.58
300.00	3.63	3.64	0.01	18.84	0.77	1.91	1.58	1.59
600.00	3.65	3.65	0.00	19.55	1.46	1.84	1.57	1.59
800.00	3.65	3.63	0.02	20.59	1.76	1.76	1.56	1.59
950.00	3.65	3.60	0.05	21.89	1.90	1.71	1.55	1.58
1150.00	3.65	3.56	0.09	24.73	1.89	1.62	1.53	1.56
1300.00	3.67	3.64	0.03	28.68	1.70	1.53	1.52	1.54
1450.00	3.72	3.60	0.12	37.99	1.45	1.46	1.50	1.51
1600.00	3.78	3.73	0.05	34.62	1.03	1.42	1.49	1.48
1850.00	3.94	3.83	0.11	22.22	0.16	1.45	1.47	1.40
1950.00	4.01	3.94	0.07	19.58	0.70	1.51	1.46	1.36
2000.00	4.03	4.02	0.01	18.65	0.98	1.55	1.46	1.34



electrical schematic



Mini-Circuits®

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

INTERNET <http://www.minicircuits.com>



REV. B
M102713
LRPS-2-11
ED-2361
DJ/TD/CP
060915