

Surface Mount

Power Splitter/Combiner

LRPS-2-11A+

2 Way-0°

50Ω

20 to 2000 MHz

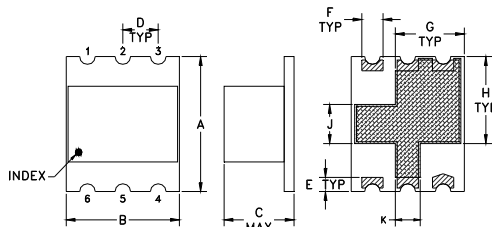
Maximum Ratings

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

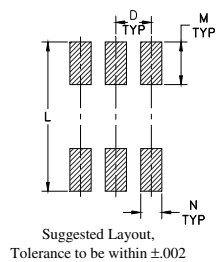
Pin Connections

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

Outline Drawing



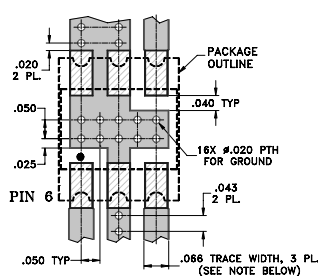
PCB Land Pattern



Outline Dimensions (inch)

A	B	C	D	E	F	G
.380	.32	.215	.100	.040	.060	.195
9.65	8.13	5.46	2.54	1.02	1.52	4.95
H	J	K	L	M	N	wt
0.25	.110	.070	.420	.120	.060	grams
6.35	2.79	1.78	10.67	3.05	1.52	0.43

Demo Board MCL P/N: TB-480+ Suggested PCB Layout (PL-290)



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.
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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: QQQ1358

PRICE: \$19.95 ea. QTY (1-9)

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

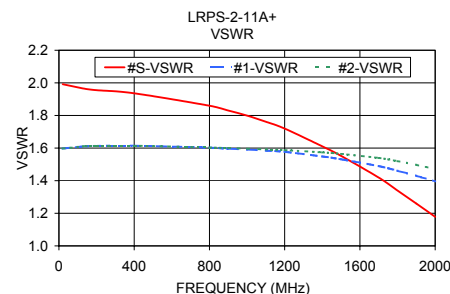
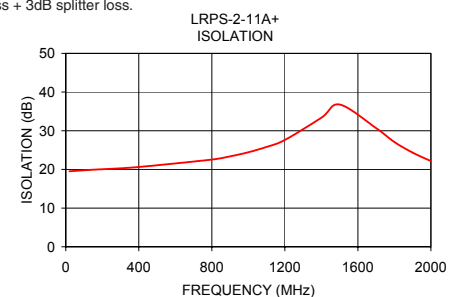
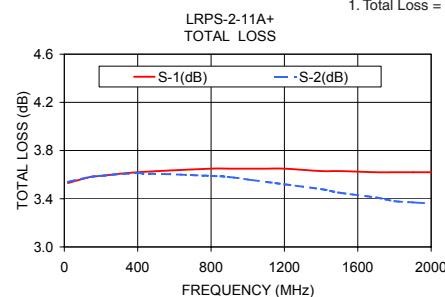
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f _L -f _U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
20-2000	19	15	21	15	30	15	0.6	0.8	0.7	1.0	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)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
20.00	3.54	3.54	0.00	19.18	0.01	1.99	1.58	1.58
140.00	3.58	3.58	0.01	19.39	0.23	1.96	1.59	1.59
200.00	3.59	3.59	0.01	19.49	0.35	1.95	1.59	1.59
400.00	3.62	3.60	0.02	19.96	0.62	1.92	1.58	1.58
800.00	3.63	3.56	0.07	21.25	1.00	1.81	1.54	1.53
900.00	3.63	3.54	0.09	21.81	1.29	1.76	1.52	1.51
1000.00	3.60	3.51	0.09	22.43	1.52	1.72	1.50	1.50
1100.00	3.60	3.49	0.10	23.16	1.30	1.67	1.49	1.48
1200.00	3.61	3.48	0.12	23.85	1.28	1.62	1.47	1.46
1400.00	3.63	3.46	0.17	24.72	1.01	1.51	1.43	1.43
1500.00	3.64	3.45	0.19	24.59	1.10	1.46	1.41	1.41
1700.00	3.68	3.44	0.24	22.76	0.92	1.38	1.36	1.39
1800.00	3.71	3.46	0.25	21.43	0.76	1.36	1.34	1.38
1900.00	3.76	3.49	0.27	20.06	0.54	1.37	1.32	1.37
2000.00	3.84	3.53	0.30	18.74	0.23	1.41	1.31	1.37

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



electrical schematic



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