

Surface Mount

Power Splitter/Combiner

ADP-2-1W+
ADP-2-1W

2 Way-0° 50Ω 1 to 650 MHz



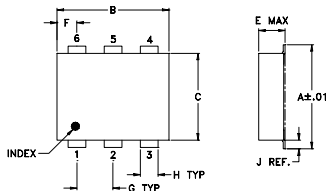
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	2W max.
Internal Dissipation	0.125W max.

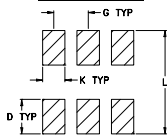
Pin Connections

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

Outline Drawing



PCB Land Pattern

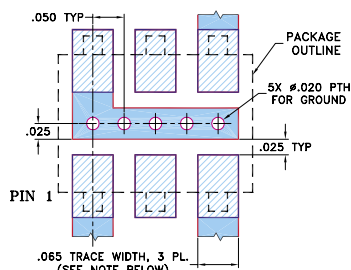


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	
.272	.310	.220	.100	.162	.055	.100	
6.91	7.87	5.59	2.54	4.11	1.40	2.54	
H	J	K	L				wt
.030	.026	.065	.300				grams
0.76	0.66	1.65	7.62				0.25

Demo Board MCL P/N: TB-48 Suggested PCB Layout (PL-035)



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

- low insertion loss, 0.25 dB typ.
- excellent amplitude unbalance, 0.01 dB typ.
- very good phase unbalance, 0.2 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications

- VHF/UHF receivers/transmitters

CASE STYLE: CD636
PRICE: \$6.95 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.

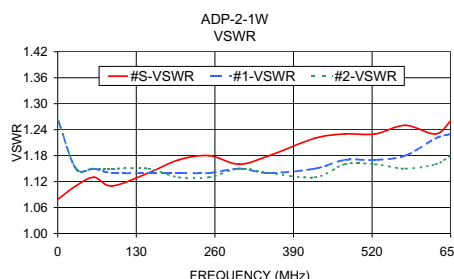
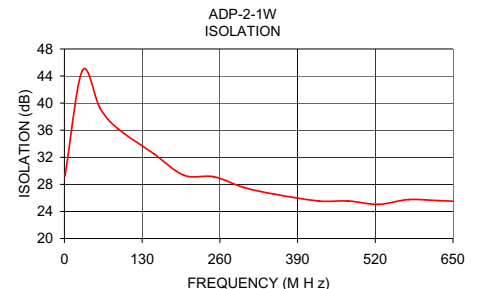
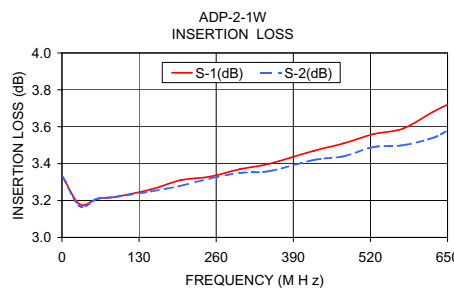
Splitter Electrical Specifications

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	L	M	U
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _c -f _u																		
1-650	30	20	30	20	24	20	0.2	0.8	0.25	0.8	0.5	1.0	2.0	2.0	3.0	0.15	0.2	0.3

L = 1-10 MHz M = 10-325 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						
1.00	3.33	3.33	0.00	29.22	0.03	1.08	1.26	1.26
30.00	3.18	3.17	0.01	44.81	0.03	1.11	1.15	1.15
60.00	3.21	3.21	0.00	39.19	0.01	1.13	1.15	1.15
90.00	3.22	3.22	0.00	36.18	0.00	1.11	1.14	1.15
150.00	3.26	3.25	0.01	32.49	0.12	1.14	1.14	1.15
200.00	3.31	3.28	0.03	29.34	0.09	1.17	1.14	1.13
250.00	3.33	3.32	0.02	29.13	0.06	1.18	1.14	1.13
300.00	3.37	3.35	0.02	27.54	0.17	1.16	1.15	1.15
350.00	3.40	3.36	0.04	26.57	0.09	1.18	1.14	1.14
425.00	3.47	3.42	0.05	25.55	0.28	1.22	1.15	1.13
475.00	3.51	3.44	0.07	25.55	0.30	1.23	1.17	1.16
525.00	3.56	3.49	0.07	25.05	0.30	1.23	1.17	1.16
575.00	3.59	3.50	0.09	25.75	0.30	1.25	1.18	1.15
625.00	3.68	3.54	0.14	25.60	0.47	1.23	1.22	1.16
650.00	3.72	3.58	0.14	25.51	0.52	1.26	1.23	1.18



electrical schematic



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