

Surface Mount

Power Splitter/Combiner

2 Way-0°

50Ω

5 to 1000 MHz

ADP-2-10+ ADP-2-10



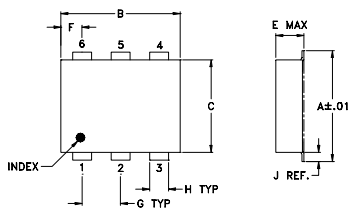
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.

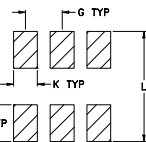
Pin Connections

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

Outline Drawing



PCB Land Pattern

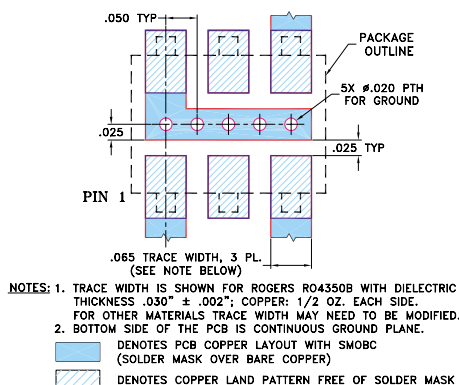


Suggested Layout,
Tolerance to be within ±.002

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)



Features

- low insertion loss, 0.4 dB typ.
- excellent amplitude unbalance, 0.01 dB typ.
- very good phase unbalance, 0.3 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications

- VHF/UHF receivers/transmitters
- instrumentation

CASE STYLE: CD636

PRICE: \$12.95 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.

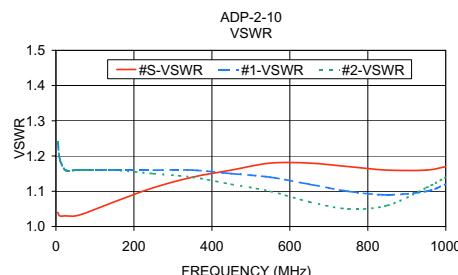
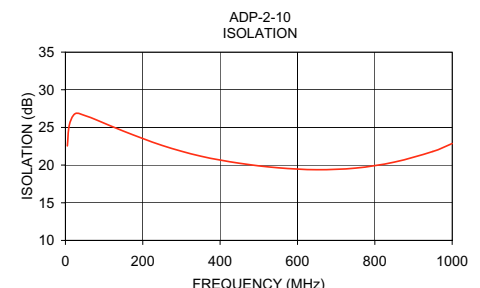
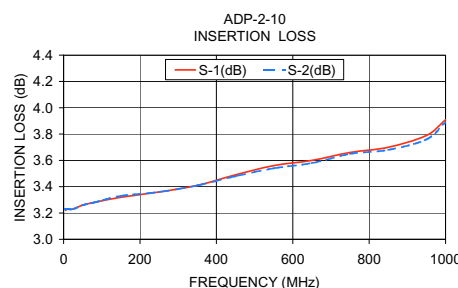
Electrical Specifications

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	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.
5-1000	25	15	23	15	20	15	0.3	0.9	0.4	0.9	0.6	1.2	2.0	2.0	3.0	0.2	0.2	0.3

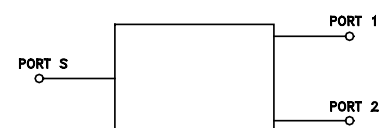
L = 5-50 MHz M = 50-500 MHz U = 500-1000 MHz

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						
5.00	3.22	3.23	0.01	22.55	0.06	1.04	1.24	1.24
10.00	3.23	3.23	0.00	25.33	0.03	1.03	1.19	1.19
25.00	3.23	3.23	0.00	26.82	0.02	1.03	1.16	1.16
50.00	3.26	3.26	0.00	26.58	0.06	1.03	1.16	1.16
80.00	3.28	3.28	0.00	26.00	0.14	1.04	1.16	1.16
150.00	3.32	3.33	0.01	24.51	0.21	1.07	1.16	1.16
250.00	3.36	3.36	0.01	22.61	0.39	1.11	1.16	1.15
350.00	3.41	3.41	0.00	21.19	0.57	1.14	1.16	1.14
450.00	3.49	3.48	0.00	20.24	0.66	1.16	1.15	1.12
550.00	3.56	3.54	0.02	19.64	0.76	1.18	1.14	1.10
650.00	3.60	3.58	0.02	19.39	0.75	1.18	1.12	1.07
750.00	3.66	3.65	0.01	19.60	0.73	1.17	1.10	1.05
850.00	3.70	3.68	0.02	20.39	0.92	1.16	1.09	1.06
950.00	3.79	3.76	0.03	21.81	0.69	1.16	1.10	1.11
1000.00	3.91	3.89	0.02	22.86	0.89	1.17	1.12	1.14



electrical schematic



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