

Surface Mount

Power Splitter/Combiner

2 Way-0°

50Ω

5 to 1000 MHz

ADP-2-10+

ADP-2-10



Maximum Ratings

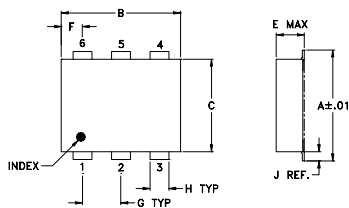
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.

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

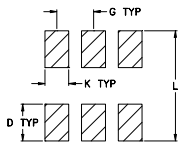
Pin Connections

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

Outline Drawing



PCB Land Pattern

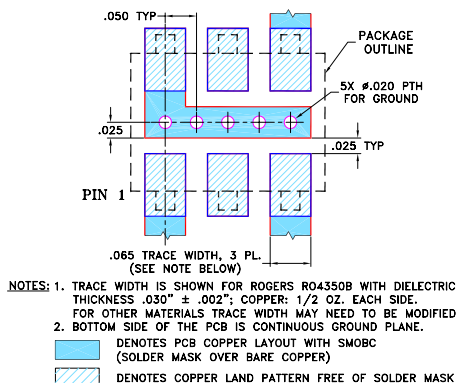


Suggested Layout,
Tolerance to be within ±.002

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			
.030	.026	.065	.300			wt
0.76	0.66	1.65	7.62			grams
						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

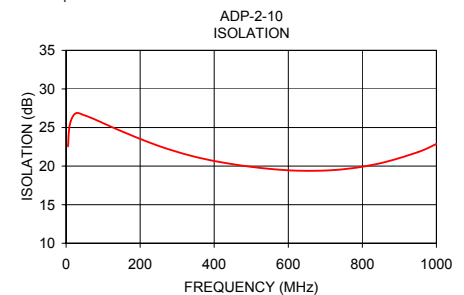
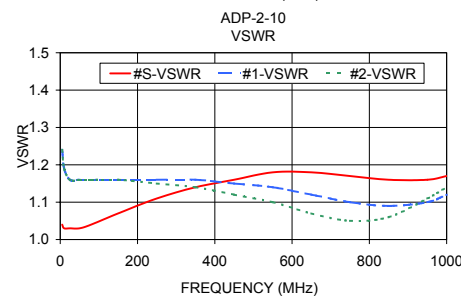
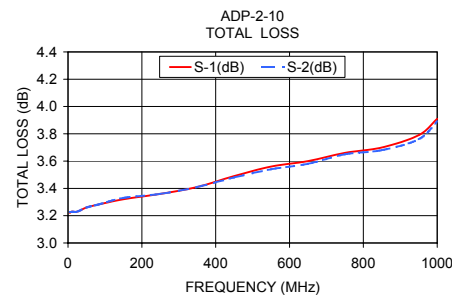
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-1000	25	15	23	15	20	15	0.3	0.9	0.4	0.9	0.6	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)	Total Loss ¹ (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

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



electrical schematic



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