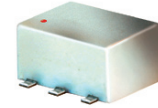


Surface Mount

Power Splitter/Combiner

ADP-2-10+ ADP-2-10

2 Way-0° 50Ω 5 to 1000 MHz



Maximum Ratings

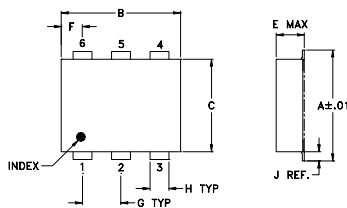
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.

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

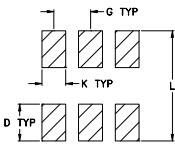
Pin Connections

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

Outline Drawing



PCB Land Pattern

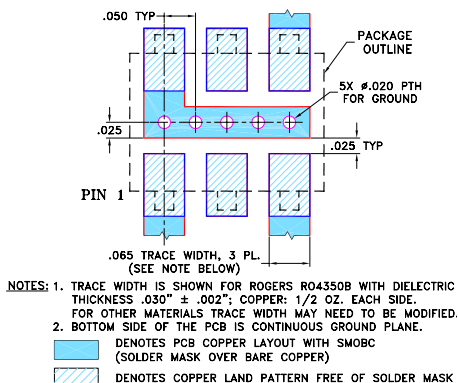


Suggested Layout,
Tolerance to be within ±.002

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			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.

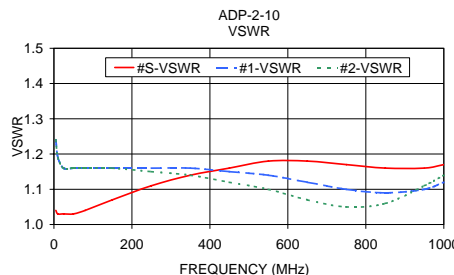
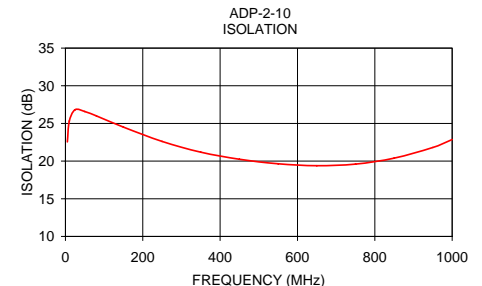
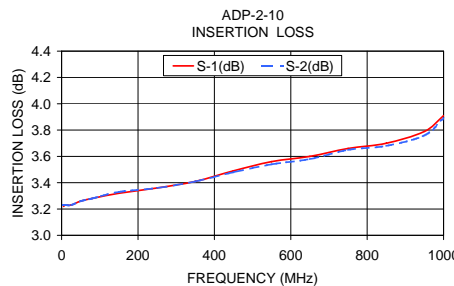
Electrical Specifications

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			
5-1000	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.
$f_c - f_u$	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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