

Surface Mount Power Splitter/Combiner

2 Way-0° 50Ω 5 to 1000 MHz

ADP-2-10+
ADP-2-10



CASE STYLE: CD636

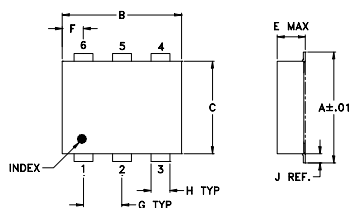
Maximum Ratings

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.	

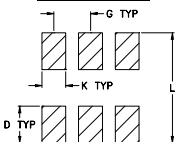
Pin Connections

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

Outline Drawing



PCB Land Pattern

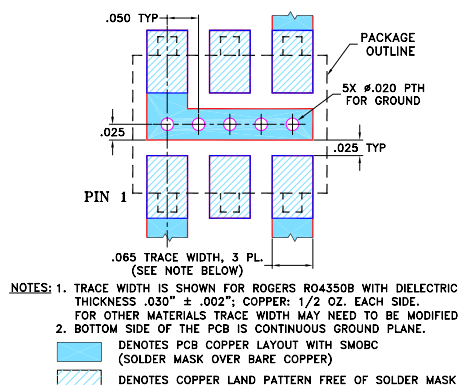


Suggested Layout,
Tolerance to be within ±.002

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

Electrical Specifications

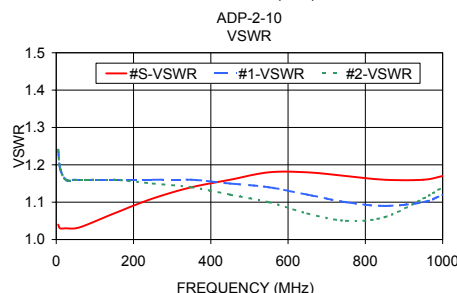
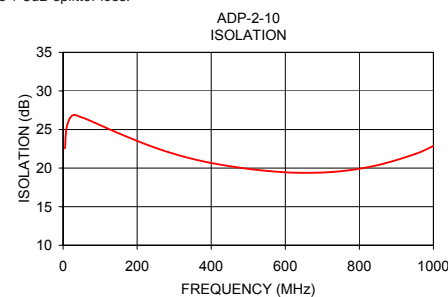
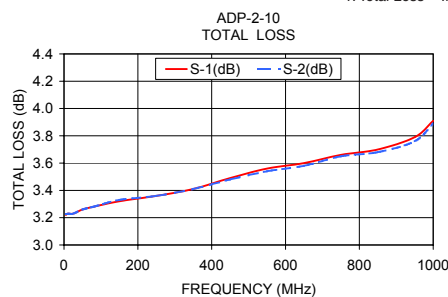
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f _L -f _U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-1000	25	15	23	15	20	15	0.3	0.9	0.4	0.9	0.6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

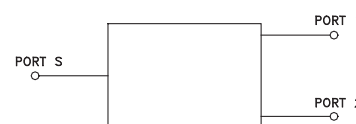
Typical Performance Data

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



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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