

Surface Mount

Power Splitter/Combiner

2 Way-0°

50Ω

0.5 to 400 MHz

ADP-2-1+
ADP-2-1


CASE STYLE: CD636

PRICE: \$7.95 ea. QTY. (10)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Available Tape and Reel at no extra cost	
Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200, 500
13"	500, 1000

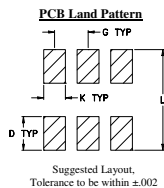
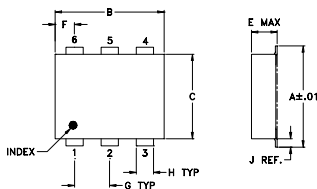
Maximum Ratings

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
Externally connect together & isolate	2,5

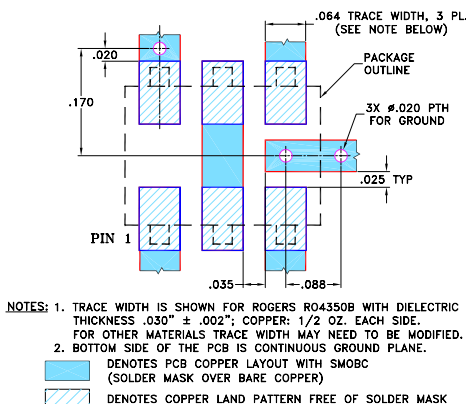
Outline Drawing



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-208 Suggested PCB Layout (PL-116)



Features

- low insertion loss, 0.3 dB typ.
- excellent amplitude unbalance, 0.10 dB typ.
- very good phase unbalance, 0.5 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications

- instrumentation
- VHF/UHF

Electrical Specifications

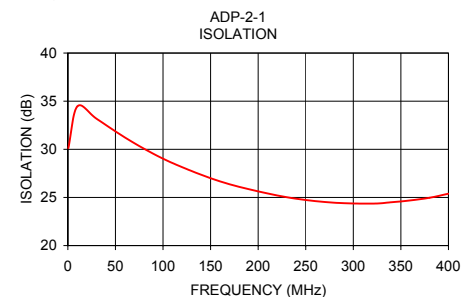
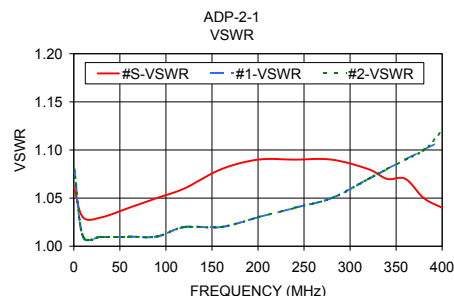
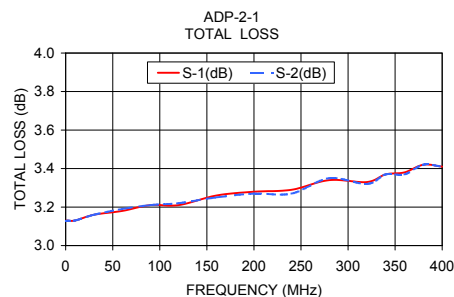
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
0.5-400	25	20	25	20	25	20	0.2	0.4	0.3	0.6	0.5	1.0

L = 0.5-5 MHz M = 5-200 MHz U = 200-400 MHz
See Notes below.

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						
0.50	3.13	3.13	0.00	30.12	0.03	1.06	1.08	1.08
10.00	3.13	3.13	0.00	34.46	0.05	1.03	1.01	1.01
30.00	3.16	3.16	0.00	33.18	0.04	1.03	1.01	1.01
60.00	3.18	3.19	0.01	31.23	0.04	1.04	1.01	1.01
90.00	3.21	3.21	0.00	29.53	0.11	1.05	1.01	1.01
120.00	3.21	3.22	0.01	28.15	0.07	1.06	1.02	1.02
160.00	3.26	3.25	0.01	26.67	0.12	1.08	1.02	1.02
200.00	3.28	3.27	0.01	25.63	0.08	1.09	1.03	1.03
240.00	3.29	3.27	0.01	24.87	0.14	1.09	1.04	1.04
280.00	3.34	3.35	0.00	24.45	0.19	1.09	1.05	1.05
320.00	3.33	3.32	0.00	24.36	0.26	1.08	1.07	1.07
340.00	3.37	3.37	0.01	24.50	0.29	1.07	1.08	1.08
360.00	3.38	3.37	0.00	24.69	0.24	1.07	1.09	1.09
380.00	3.42	3.42	0.00	24.97	0.28	1.05	1.10	1.10
400.00	3.41	3.41	0.00	25.39	0.37	1.04	1.11	1.12

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



electrical schematic



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