Power Splitter/Combiner

ADP-2-1W-28+

2 Way-0°

50Ω

1 to 700 MHz

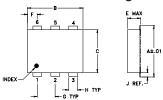
Maximum Ratings

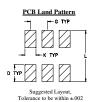
Operating Temperature	-40°C to 85°C						
Storage Temperature	-55°C to 100°C						
Power Input (as a splitter)	2W max.						
Internal Dissipation	0.125W max.						
Permanent damage may occur if any of these limits are exceeded.							

Pin Connections

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

Outline Drawing

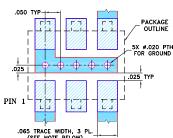




Outline Dimensions (inch)

. 100 2.54	.055	E . 162 4.11	.100	C . 220 5.59	B . 310 7.87	A . 272 6.91
grams 0.25			.300	K . 065 1.65	.026	H .030 0.76

Demo Board MCL P/N: TB-48+ Suggested PCB Layout (PL-035)



.065 TRACE WIDTH, 3 PL.
(SEE NOTE BELOW)

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC
THICKNESS .030" ± .002"; COPPER: 1/2 02. Each SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC
(SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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. B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

- low insertion loss, 0.25 dB typ.
- excellent amplitude unbalance, 0.01 dB typ.
- very good phase unbalance, 0.2 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications

VHF/UHF receivers/transmitters

Generic photo used for illustration purposes only

CASE STYLE: CD636

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



Electrical Specifications

FREQ. RANGE (MHz)	ı	ISOLATION INSERTION LOSS (dB) (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.	Тур. Мах.	Тур. Мах.	Тур. Мах.	Max.	Max.	Max.	Max.	Max.	Max.	
1-700	30 20	30 20	24 20	0.2 0.8	0.25 0.8	0.5 1.0	2.0	2.0	3.0	0.15	0.2	0.3	

L = 1-10 MHz M = 10-325 MHz U = 325-700 MHz

electrical schematic

