Power Splitter/Combiner

CASE STYLE: CA531

PRICE: \$0.99 ea. QTY (25)

+ RoHS compliant in accordance

The +Suffix has been added in order to identify RoHS

Compliance. See our web site for RoHS Compliance

methodologies and qualifications.

with EU Directive (2002/95/EC)

2 Way-0° 50Ω

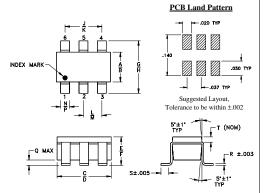
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-65°C to 150°C
Power Input (as a splitter)	1.5W max.
Internal Dissipation	0.75W max.

Pin Connections

SUM PORT	5
PORT 1	1
PORT 2	3
GROUND	2,4,6

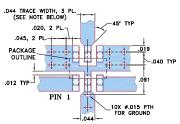
Outline Drawing



Outline Dimensions (inch)

	J	Н	G	F	E	D	С	В	А	
	.067	.118	.087	.064	.035	.122	.106	.067	.052	
	1.70	3.00	2.21	1.63	0.89	3.10	2.69	1.70	1.32	
wt	Т	S	R	Q	Р	N	M	L	K	
grams	.012	.020	.007	.012	.020	.012	.042	.033	.083	
0.020	0.30	0.51	0.18	0.30	0.51	0.30	1 07	0.84	2 11	

Demo Board MCL P/N: TB-374 Suggested PCB Layout (PL-232)



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015"; 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

1350 to 2250 MHz

Features

- · wide bandwidth
- · low insertion loss, 0.5 dB typ.
- · good isolation, 20 dB typ.
- excellent output VSWR, 1.2:1 typ.
- · excellent power handling, 1.5W
- · small size

Applications

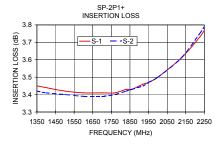
- · PCS/DCS
- · communication systems
- · mobile
- PDC
- GPS
- GSM

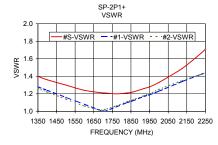
Electrical Specifications

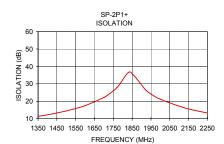
FREQ. RANGE (MHz)		ATION B)		LOSS (dB) E 3.0 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1) Output	
	Тур.	Min.	Тур.	Max.	Max.	Max.	S-Port Typ.	Ports Typ.
1350-2250	20	9	0.5	1.1	4	0.2	1.3	1.2

Typical Performance Data

Frequency (MHz)			Amplitude Unbalance	Isolation (dB)	Phase Unbalance	VSWR S	VSWR 1	VSWR 2
			(dB)		(deg.)			
1350.00	3.45	3.42	0.03	11.34	0.43	1.40	1.28	1.26
1400.00	3.44	3.41	0.03	12.25	0.42	1.36	1.24	1.22
1500.00	3.42	3.40	0.02	14.49	0.42	1.30	1.16	1.14
1600.00	3.41	3.39	0.02	17.51	0.42	1.24	1.08	1.06
1700.00	3.41	3.39	0.01	22.19	0.43	1.21	1.00	1.01
1710.00	3.41	3.39	0.01	22.82	0.43	1.21	1.00	1.02
1770.00	3.41	3.40	0.01	27.94	0.44	1.20	1.05	1.06
1830.00	3.43	3.42	0.01	36.58	0.47	1.21	1.10	1.11
1860.00	3.43	3.43	0.01	34.67	0.48	1.22	1.12	1.13
1920.00	3.46	3.45	0.00	26.70	0.50	1.26	1.17	1.18
1950.00	3.47	3.47	0.00	24.20	0.52	1.28	1.19	1.20
2000.00	3.50	3.50	0.00	21.14	0.55	1.33	1.23	1.25
2125.00	3.61	3.61	0.01	16.35	0.65	1.49	1.34	1.35
2225.00	3.73	3.75	0.01	13.84	0.75	1.66	1.42	1.42
2250.00	3.77	3.79	0.01	13.32	0.74	1.71	1.44	1.44







electrical schematic



ESD Rating

Human Body Model (HBM): Class 1A (250 v to <500 v) in accordance with ANSI/ESD STM 5.1 - 2001 Machine Model (MM): Class M1 (< 100 v) in accordance with ANSI/ESD STM 5.2 - 1999 (pass 50V)



INTERNET http://www.minicircuits.com



REV. A M107210