Power Splitter/Combiner

CASE STYLE: CA531

PRICE: \$ 0.99 ea. QTY (25)

with EU Directive (2002/95/EC)

+ 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.

2 Way-0° 50Ω

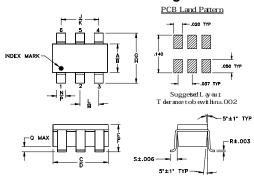
Maximum Ratings

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

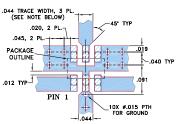
Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	E	F	G	Н	J
.052	.067	.106	.122	.035	.064	.087	.118	.067
1.32	1.70	2.69	3.10	0.89	1.63	2.21	3.00	1.70
				_	_	_	_	
K	L	М	N	Р	Q	R	S	wt
K .083	.033				_		_	wt grams

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 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTON 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

780 to 960 MHz

Features

- · low insertion loss, 0.4 dB typ.
- good isolation, 28 dB typ.
- excellent VSWR, 1.20:1 typ.
- · excellent power handling, 1.5W
- · small size

Applications

- · cellular
- GSM
- · Land Mobile
- · ISM
- PDC

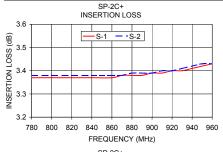
· aqueous washable

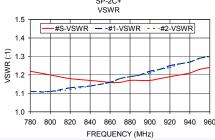
Electrical Specifications

FREQ. RANGE	RANGE (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE	AMPLITUDE UNBALANCE	VSWR (:1)	
(MHz)					(Degrees)	(dB)	Output	
	Тур.	Min.	Тур.	Max.	Max.	Max.	S-Port Typ.	Ports Typ.
780-960	28	17	0.4	0.6	2	0.2	1.20	1.20

Typical Performance Data

Frequency (MHz)		on Loss dB)	Amplitude Unbalance	Isolation (dB)	Phase Unbalance	VSWR S	VSWR 1	VSWR 2
	S-1	S-2	(dB)		(deg.)			
780.00	3.37	3.38	0.01	22.00	0.05	1.22	1.11	1.11
800.00	3.37	3.38	0.01	24.99	0.04	1.20	1.11	1.11
820.00	3.37	3.38	0.01	29.45	0.04	1.18	1.13	1.12
840.00	3.37	3.38	0.01	37.94	0.04	1.17	1.14	1.14
860.00	3.37	3.38	0.01	36.99	0.04	1.16	1.16	1.16
870.00	3.38	3.38	0.01	32.35	0.04	1.16	1.18	1.18
880.00	3.38	3.39	0.01	29.21	0.04	1.17	1.19	1.19
890.00	3.38	3.39	0.01	26.90	0.05	1.17	1.20	1.20
900.00	3.39	3.39	0.01	25.08	0.04	1.17	1.22	1.21
910.00	3.39	3.40	0.01	23.59	0.04	1.18	1.23	1.23
920.00	3.40	3.40	0.01	22.33	0.04	1.19	1.25	1.24
930.00	3.40	3.41	0.01	21.24	0.03	1.20	1.26	1.26
940.00	3.41	3.42	0.01	20.29	0.03	1.21	1.27	1.27
950.00	3.42	3.43	0.01	19.43	0.02	1.23	1.29	1.29
960.00	3.43	3.43	0.01	18.66	0.02	1.24	1.30	1.30





SP-2C+ ISOLATION 50 (B) SOLATION (30 780 800 820 840 860 880 900 920 940 960 FREQUENCY (MHz)

electrical schematic



Human Body Model (HBM): Class 1A (250 v to <500 v) in accordance with ANSI/ESD STM 5.1 - 2001





