



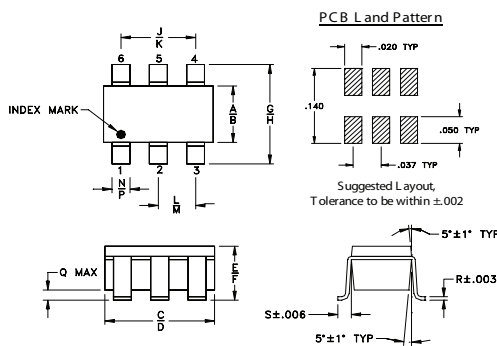
Maximum Ratings

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.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

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

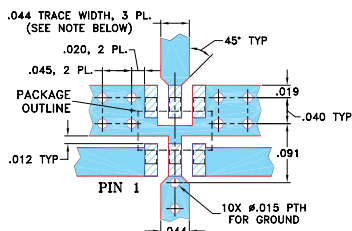
Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H	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	M	N	P	Q	R	S	wt
.083	.033	.042	.012	.020	.012	.006	.018	grams
2.11	0.84	1.07	0.30	0.51	0.30	0.15	0.46	0.020

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 OZ. 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

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
- aqueous washable

Applications

- cellular
- GSM
- Land Mobile
- ISM
- PDC

CASE STYLE: CA531

PRICE: \$ 0.96 ea. QTY (20)

+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

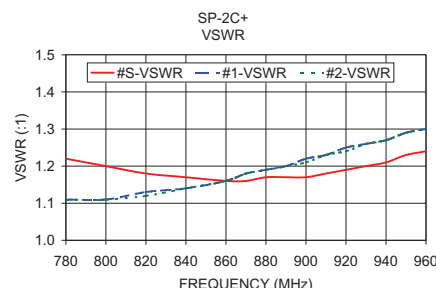
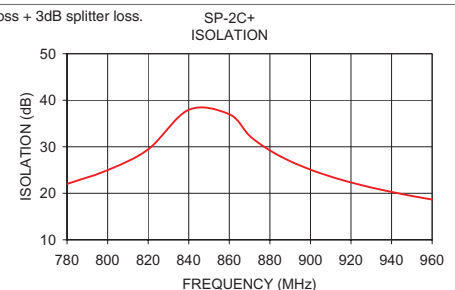
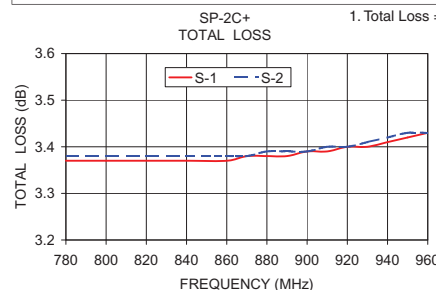
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500, 1000

Electrical Specifications

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

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						
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



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)

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IFIRF MICROWAVE COMPONENTS

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SP-2C+
PI/LC/CP/AM
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