



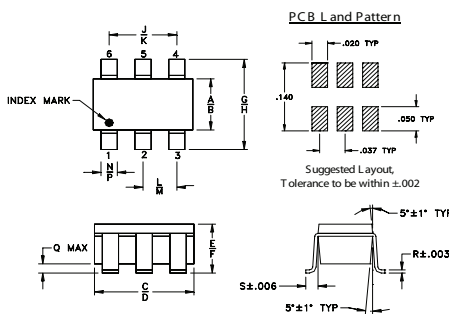
Maximum Ratings

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

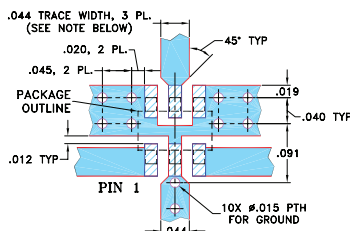
SUM PORT	5
PORT 1	1
PORT 2	3
GROUND	2,4,6

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, 0.5 dB typ.
- good isolation, 22 dB typ.
- excellent output VSWR, 1.2:1 typ.
- excellent power handling, 1.5W
- small size
- aqueous washable

Applications

- bluetooth
- WCDMA
- IEEE 802.11b, g
- Wi-Fi
- ISM

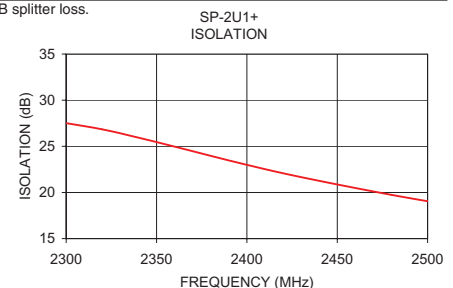
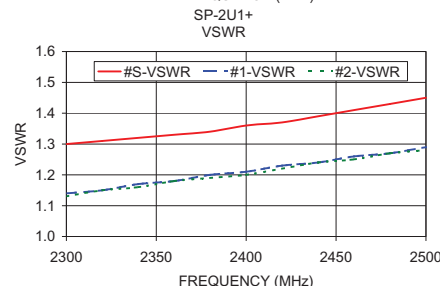
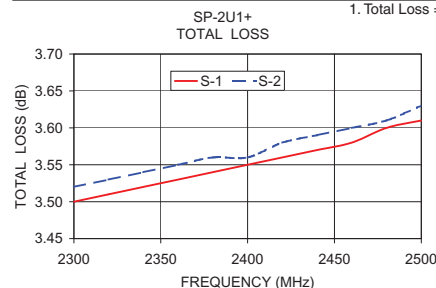
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.			S-Port Typ.	Output Ports Typ.
2300-2500	22	16	0.5	0.9	3	0.2	1.35	1.2

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						
2300.00	3.50	3.52	0.02	27.51	0.73	1.30	1.14	1.13
2320.00	3.51	3.53	0.02	26.84	0.74	1.31	1.15	1.15
2340.00	3.52	3.54	0.02	25.94	0.74	1.32	1.17	1.16
2360.00	3.53	3.55	0.02	24.97	0.74	1.33	1.18	1.18
2380.00	3.54	3.56	0.02	23.97	0.74	1.34	1.20	1.19
2400.00	3.55	3.56	0.01	22.99	0.75	1.36	1.21	1.20
2420.00	3.56	3.58	0.02	22.08	0.77	1.37	1.23	1.22
2440.00	3.57	3.59	0.02	21.26	0.80	1.39	1.24	1.24
2460.00	3.58	3.60	0.02	20.48	0.81	1.41	1.26	1.25
2480.00	3.60	3.61	0.02	19.74	0.83	1.43	1.27	1.27
2500.00	3.61	3.63	0.02	19.05	0.83	1.45	1.29	1.28

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



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)