

Surface Mount Power Splitter/Combiner

SP-2U1+

2 Way-0° 50Ω

2300 to 2500 MHz



CASE STYLE: CA531
PRICE: \$0.96 ea. QTY (25)

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

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

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

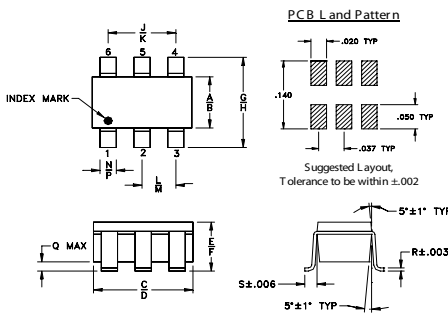
Electrical Specifications

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)	Insertion Loss (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

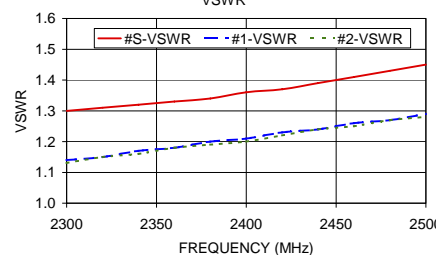
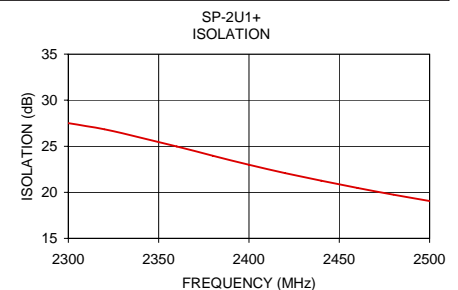
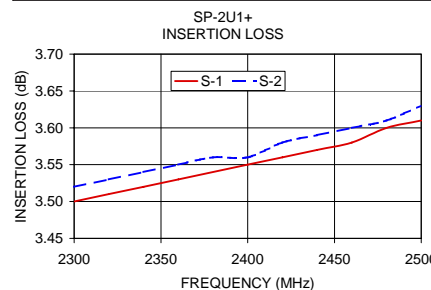
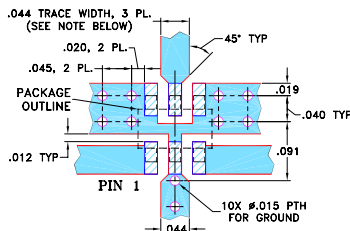
Outline Drawing



Outline Dimensions (inch/mm)

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)



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)



For detailed performance specs & shipping online see web site

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