

Surface Mount

Power Splitter/Combiner

BP2G+

2 Way-0° 50Ω

1420 to 1660 MHz



CASE STYLE: XX211
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	2
PORT 1	8
PORT 2	5
GROUND	1,3,4,6,7

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 28 dB typ.
- good output VSWR, 1.15:1 typ.
- good input VSWR, 1.2:1 typ.
- excellent power handling, 1.5W
- low profile, 0.077"

Applications

- GPS
- PDC
- mobile satellite
- defense & aeronautical

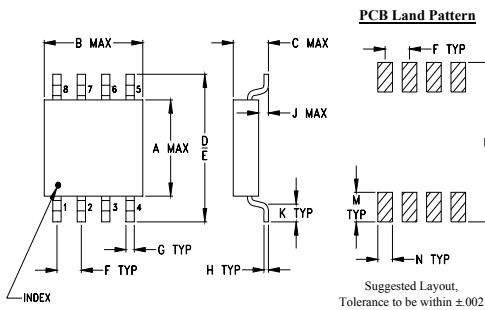
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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.
1420-1660	28	20	0.6	1.0	3.0	0.2	1.15	1.15

Outline Drawing

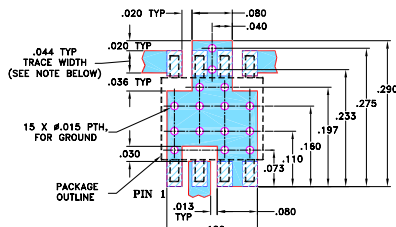


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.163	.210	.077	.250	.220	.050	.017
4.14	5.33	1.96	6.35	5.59	1.27	0.43

H	J	K	M	N	P	wt
.009	.025	.030	.050	.030	.270	grams
0.23	0.64	0.76	1.27	0.76	6.86	0.10

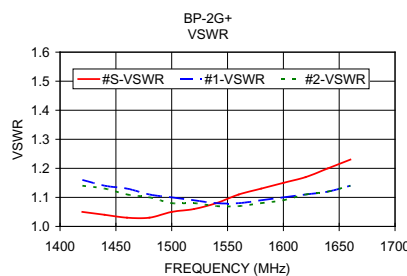
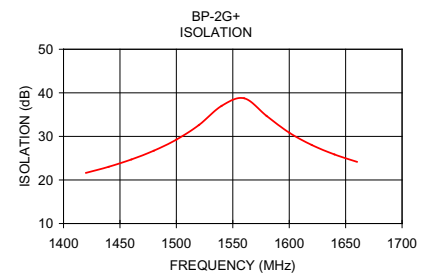
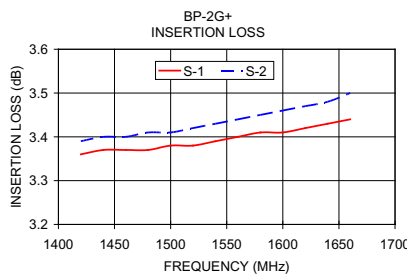
Demo Board MCL P/N: TB-37 Suggested PCB Layout (PL-053)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015", 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

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1420.00	3.36	3.39	0.03	21.64	0.10	1.05	1.16	1.14
1440.00	3.37	3.40	0.03	23.03	0.09	1.04	1.14	1.13
1460.00	3.37	3.40	0.04	24.69	0.10	1.03	1.13	1.11
1480.00	3.37	3.41	0.04	26.71	0.10	1.03	1.11	1.10
1500.00	3.38	3.41	0.04	29.25	0.10	1.05	1.10	1.08
1520.00	3.38	3.42	0.04	32.62	0.08	1.06	1.09	1.08
1540.00	3.39	3.43	0.04	36.99	0.06	1.08	1.08	1.07
1560.00	3.40	3.44	0.04	38.76	0.04	1.11	1.08	1.07
1580.00	3.41	3.45	0.04	34.69	0.03	1.13	1.09	1.08
1600.00	3.41	3.46	0.05	30.85	0.01	1.15	1.10	1.09
1620.00	3.42	3.47	0.05	28.03	0.00	1.17	1.11	1.11
1640.00	3.43	3.48	0.05	25.87	0.03	1.20	1.12	1.12
1660.00	3.44	3.50	0.05	24.16	0.04	1.23	1.14	1.14



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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