2 Way-0°

Maximum Ratings

Operating Temperature

Power Input (as a splitter)

Storage Temperature

Internal Dissipation

Power Splitter/Combiner

BP2G1+



Generic photo used for illustration purposes only

CASE STYLE: XX211

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site



for RoHS Compliance methodologies and qualifications

Pin Connections

SUM PORT	2
PORT 1	8
PORT 2	5
GROUND	1,3,4,6,7

Permanent damage may occur if any of these limits are

 50Ω

-40°C to 85°C

-65°C to 150°C

1.5W max.

0.75W max.

aqueous washable

excellent repeatability

1200 to 2000 MHz

wide bandwidth, 1200-2000 MHz

excellent power handling, 1.5W

low insertion loss, 0.6 dB typ.
 high isolation, 21 dB typ.
 good input and output VSWR, 1.3:1 typ.

Features

low profile

- **Applications** • GPS
- WCDMA

• PCS • DCS

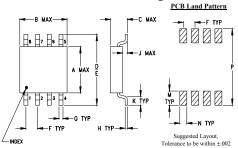
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 3.0 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
					S-Port	Output-Ports
f _L -f _∪	Typ. Min.	Тур. Мах.	Max.	Max.	Тур.	Тур.
1200-2000	21 10	0.6 1.3	3.0	0.3	1.3	1.3

Typical Performance Data at 25°C

Frequency (MHz)	Total Loss¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2	
	S-1	S-2							
1200.00	3.40	3.40	0.01	13.15	0.13	1.25	1.37	1.36	
1300.00	3.37	3.39	0.02	16.05	0.10	1.15	1.28	1.26	
1360.00	3.36	3.39	0.03	18.41	0.11	1.10	1.21	1.20	
1400.00	3.36	3.39	0.03	20.43	0.11	1.06	1.18	1.16	
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	
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	
1660.00	3.44	3.50	0.05	24.16	0.04	1.23	1.14	1.14	
1680.00	3.46	3.52	0.06	22.73	0.04	1.25	1.15	1.16	
1700.00	3.47	3.54	0.06	21.52	0.05	1.29	1.17	1.18	
1800.00	3.57	3.64	0.07	17.23	0.12	1.44	1.28	1.30	
1900.00	3.72	3.79	0.07	14.52	0.08	1.64	1.42	1.43	
1950.00	3.81	3.88	0.07	13.48	0.15	1.74	1.48	1.50	
2000.00	3.92	3.98	0.06	12.58	0.12	1.87	1.55	1.57	

Outline Drawing

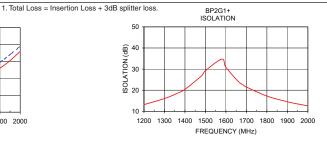


Outline Dimensions (inch)

	· · · · · ·					
G	F	E	D	С	В	Α
.017	.050	.220	.250	.077	.210	.163
0.43	1.27	5.59	6.35	1.96	5.33	4.14
wt	Р	N	M	K	J	Н
grams	.270	.030	.050	.030	.025	.009
0.10	6.86	0.76	1 27	0.76	0.64	0.23

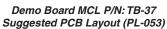
TOTAL LOSS TOTAL LOSS 3.6 1200 1300 1400 1500 1600 1700 FREQUENCY (MHz)

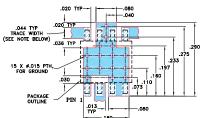
BP2G1+

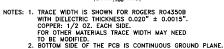


electrical schematic

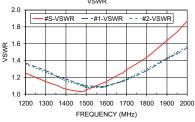
PORT S



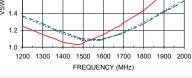




DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER) DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK



BP2G1+



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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PORT 2

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