Surface Mount

Power Splitter/Combiner

BP2P

2 Way-0° 50Ω 1710 to 1990 MHz

CASE STYLE: XX211
PRICE: $1.24 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

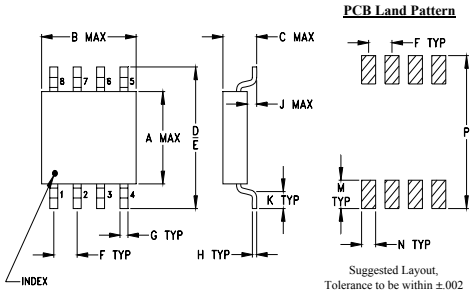
Features

- low insertion loss, 0.7 dB typ.
- high isolation, 30 dB typ.
- excellent repeatability
- low profile
- aqueous washable

Applications

- PCS/DCS
- communication systems

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

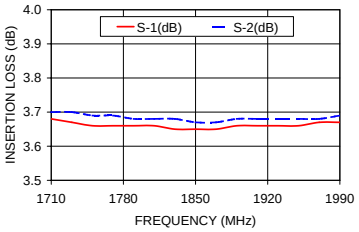
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
1710-1990	30	18	0.7	1.0	3.0	0.2

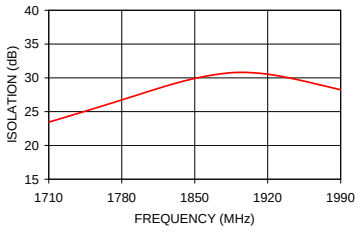
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB) S-1	Insertion Loss (dB) S-2	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
1710.00	3.68	3.70	0.03	23.45	0.21	1.12	1.18	1.12
1730.00	3.67	3.70	0.03	24.36	0.22	1.14	1.18	1.13
1750.00	3.66	3.69	0.03	25.30	0.22	1.17	1.19	1.13
1770.00	3.66	3.69	0.03	26.25	0.23	1.19	1.19	1.14
1790.00	3.66	3.68	0.02	27.22	0.23	1.21	1.20	1.14
1810.00	3.66	3.68	0.02	28.20	0.24	1.23	1.20	1.14
1830.00	3.65	3.68	0.02	29.13	0.26	1.25	1.21	1.15
1850.00	3.65	3.67	0.02	29.91	0.28	1.27	1.21	1.15
1870.00	3.65	3.67	0.02	30.49	0.29	1.29	1.22	1.16
1890.00	3.66	3.68	0.02	30.80	0.29	1.31	1.22	1.16
1910.00	3.66	3.68	0.02	30.71	0.31	1.33	1.23	1.17
1930.00	3.66	3.68	0.02	30.30	0.31	1.35	1.23	1.17
1950.00	3.66	3.68	0.02	29.68	0.33	1.37	1.24	1.18
1970.00	3.67	3.68	0.02	28.97	0.36	1.39	1.24	1.18
1990.00	3.67	3.69	0.02	28.23	0.37	1.41	1.25	1.19

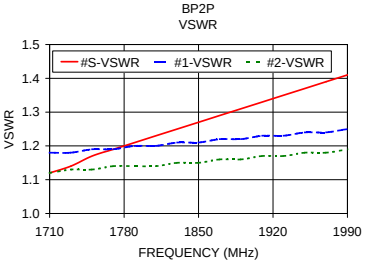
BP2P
INSERTION LOSS



BP2P
ISOLATION

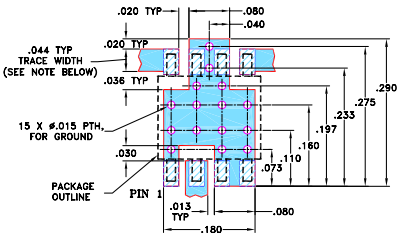


BP2P
VSWR



electrical schematic

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



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B 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

REV. D
M105667
BP2P
RS/LC/CP/AM
090824