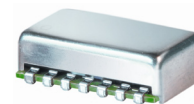


Surface Mount Power Splitter/Combiner

JSPQ-65W+

2 Way-90° 50Ω 5 to 65 MHz



Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

Pin Connections

SUM PORT	2
PORT 1 (0°)	6
PORT 2 (90°)	9
GROUND	1,3,4,5,7,8,10,11,12,13,14

Features

- wideband, 5 to 65 MHz
- excellent isolation, 33 dB typ.
- low insertion loss, 0.7 dB typ.
- aqueous washable

Applications

- LMDS base station
- instrumentation
- modulators

CASE STYLE: BK276
PRICE: \$29.95 ea. QTY. (1-9)

+ 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.

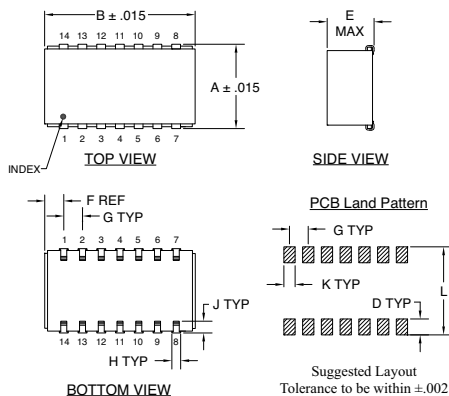
Splitter Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of coupled outputs less 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
$f_L - f_U$						
5 - 65	33	25	0.7	1.5	5	0.7

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						
5.00	3.29	3.24	0.05	35.32	90.78	1.10	1.26	1.12
10.00	3.27	3.21	0.06	36.70	89.97	1.09	1.21	1.05
15.00	3.40	3.32	0.09	36.43	87.91	1.12	1.22	1.06
20.00	3.46	3.35	0.11	35.69	87.88	1.19	1.27	1.15
25.00	3.49	3.36	0.13	34.92	88.82	1.27	1.36	1.23
30.00	3.56	3.40	0.16	34.22	89.86	1.35	1.44	1.31
32.00	3.60	3.42	0.18	33.97	90.19	1.38	1.47	1.33
34.00	3.64	3.45	0.19	33.74	90.42	1.41	1.50	1.36
36.00	3.69	3.49	0.20	33.53	90.61	1.43	1.53	1.38
40.00	3.80	3.57	0.22	33.15	90.88	1.48	1.59	1.41
45.00	3.93	3.65	0.28	32.75	90.74	1.53	1.65	1.45
50.00	4.01	3.71	0.31	32.39	90.30	1.57	1.70	1.47
55.00	4.10	3.76	0.35	32.10	89.69	1.60	1.75	1.48
60.00	4.15	3.78	0.37	31.79	88.90	1.63	1.80	1.49
65.00	4.20	3.79	0.40	31.48	88.01	1.66	1.84	1.49

Outline Drawing

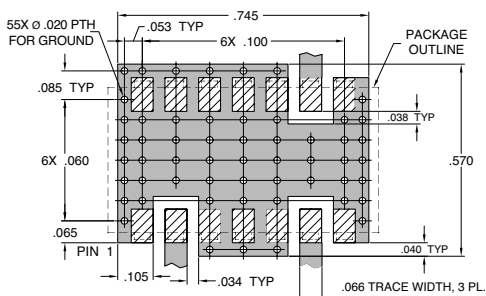


Outline Dimensions (inch/mm)

A	B	C	D	E	F
.450	.803	--	.100	.250	.102
11.43	20.40	--	2.54	6.35	2.59

G	H	J	K	L	wt.
.100	.047	.065	.065	.470	grams
2.54	1.19	1.65	1.65	11.94	3.0

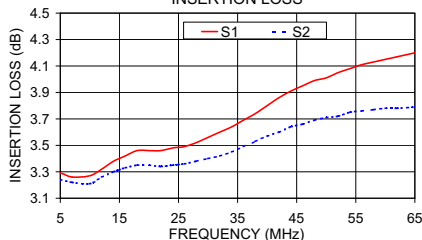
Demo Board MCL P/N: TB-444+ Suggested PCB Layout (PL-272)



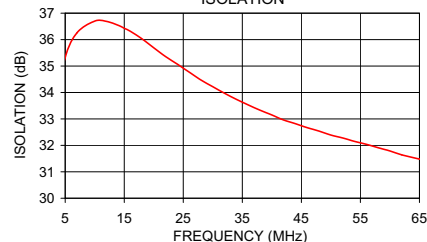
NOTES:

1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS 0.030±.002", 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

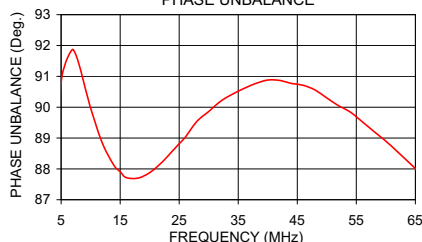
JSPQ-65W+
INSERTION LOSS



JSPQ-65W+
ISOLATION



JSPQ-65W+
PHASE UNBALANCE



functional schematic

