

Surface Mount

Power Splitter/Combiner

2 Way-0° 75Ω 10 to 650 MHz

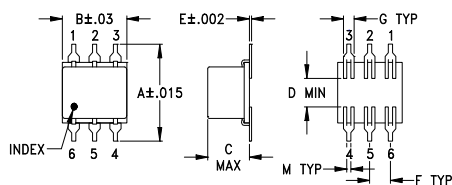
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

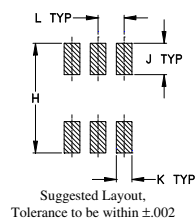
Pin Connections

SUM PORT	6
PORT 1	4
PORT 2	3
GROUND	1
NOT USED	2,5

Outline Drawing



PCB Land Pattern

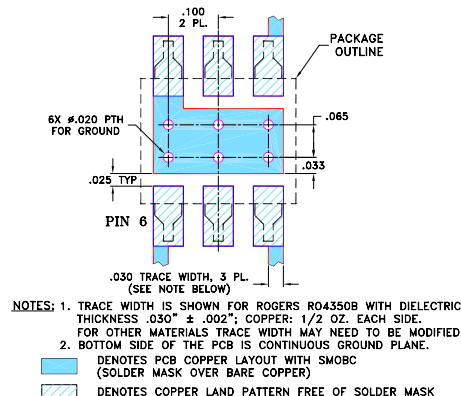


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.400	.31	.200	.10	.010	.100	.050
10.16	7.87	5.08	2.54	0.25	2.54	1.27

H	J	K	L	M	wt
.420	.120	.060	.100	.020	grams
10.67	3.05	1.52	2.54	0.51	0.55

Demo Board MCL P/N: TB-221 Suggested PCB Layout (PL-235)



Features

- low insertion loss, 0.6 dB typ.
- high isolation, 29 dB typ.

Applications

- VHF/UHF
- communications systems
- CATV



CASE STYLE: QQQ130

PRICE: \$9.95 ea. QTY. (10-49)

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

The +Suffix identifies RoHS Compliance. See our web site
for RoHS Compliance methodologies and qualifications.

Electrical Specifications

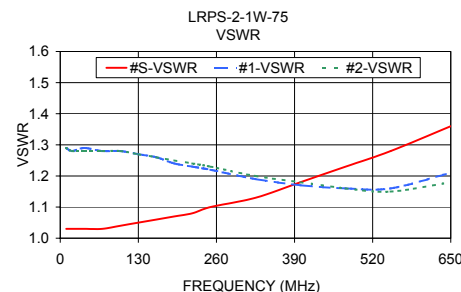
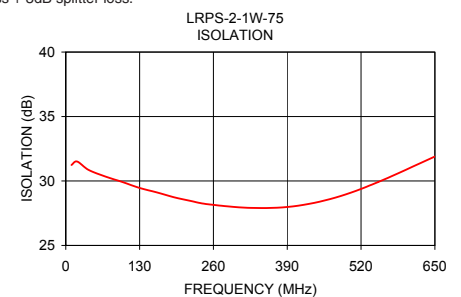
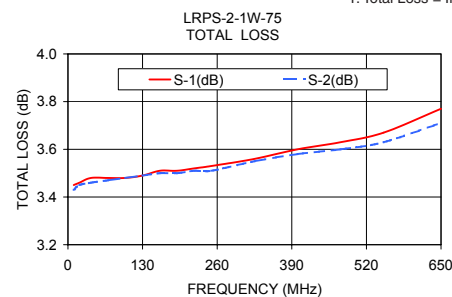
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U	L	M	U	L	M	U
f _L -f _U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-650	28	22	29	24	30	20	0.5	1.0	0.6	0.75	0.6	1.2	1.0	2.0	3.0	0.15	0.2	0.3

L = 10-100 MHz M = 100-325 MHz U = 325-650 MHz

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
10.00	3.45	3.43	0.02	31.24	0.00	1.03	1.29	1.29
20.00	3.46	3.45	0.01	31.51	0.03	1.03	1.28	1.28
40.00	3.48	3.46	0.02	30.86	0.02	1.03	1.29	1.28
70.00	3.48	3.47	0.01	30.34	0.15	1.03	1.28	1.28
100.00	3.48	3.48	0.01	29.92	0.05	1.04	1.28	1.28
130.00	3.49	3.49	0.00	29.46	0.15	1.05	1.27	1.27
160.00	3.51	3.50	0.01	29.12	0.12	1.06	1.26	1.26
190.00	3.51	3.50	0.01	28.74	0.21	1.07	1.24	1.25
220.00	3.52	3.51	0.01	28.45	0.22	1.08	1.23	1.24
250.00	3.53	3.51	0.02	28.20	0.24	1.10	1.22	1.23
325.00	3.56	3.55	0.01	27.91	0.29	1.13	1.19	1.20
400.00	3.60	3.58	0.03	28.03	0.31	1.18	1.17	1.18
475.00	3.63	3.60	0.02	28.71	0.22	1.23	1.16	1.16
550.00	3.67	3.63	0.04	29.92	0.24	1.28	1.16	1.15
650.00	3.77	3.71	0.06	31.90	0.18	1.36	1.21	1.18

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



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IF/RF MICROWAVE COMPONENTS

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