

Surface Mount Power Splitter/Combiner

LRPS-3-1+ LRPS-3-1

3 Way-0° 50Ω 10 to 300 MHz



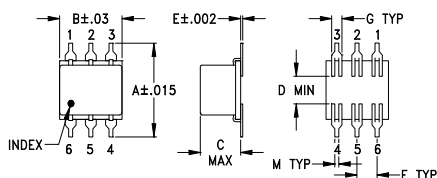
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.375W max.
Permanent damage may occur if any of these limits are exceeded.	

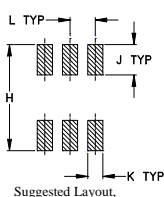
Pin Connections

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

Outline Drawing



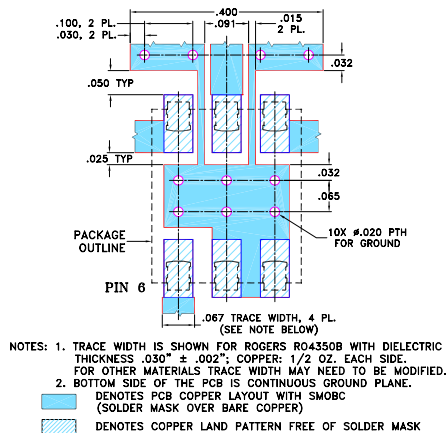
PCB Land Pattern



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-225 Suggested PCB Layout (PL-170)



Features

- low insertion loss, 0.3 dB typ.
- good isolation, 25 dB typ.

Applications

- VHF/UHF
- defense & federal communications

CASE STYLE: QQQ130
PRICE: \$19.95 ea. QTY. (1-9)

+ 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

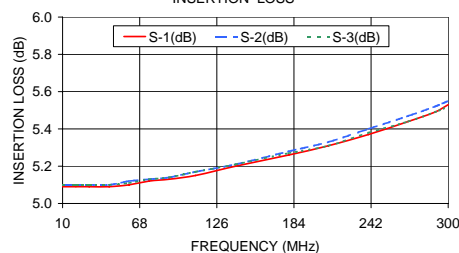
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U																		
10-300	25	20	25	20	25	20	0.2	0.6	0.3	0.8	0.5	1.2	2	3	4	0.1	0.3	0.7

L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

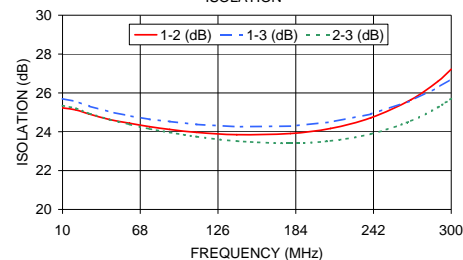
Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
10.00	5.09	5.10	5.10	0.01	25.23	25.70	25.35	0.12	1.29	1.08	1.09	1.08
20.00	5.09	5.10	5.10	0.01	25.12	25.56	25.20	0.21	1.27	1.06	1.07	1.07
30.00	5.09	5.10	5.10	0.01	24.91	25.32	24.94	0.31	1.26	1.06	1.06	1.06
45.00	5.09	5.10	5.10	0.01	24.63	25.03	24.63	0.42	1.25	1.05	1.06	1.06
60.00	5.10	5.12	5.11	0.01	24.44	24.82	24.38	0.58	1.25	1.05	1.06	1.06
75.00	5.12	5.13	5.13	0.01	24.26	24.64	24.15	0.69	1.25	1.05	1.05	1.06
90.00	5.13	5.14	5.14	0.01	24.12	24.53	23.97	0.82	1.24	1.05	1.05	1.06
110.00	5.15	5.17	5.17	0.01	23.97	24.38	23.75	1.00	1.24	1.05	1.05	1.06
140.00	5.20	5.21	5.21	0.02	23.85	24.26	23.52	1.18	1.23	1.05	1.05	1.06
180.00	5.26	5.28	5.27	0.02	23.91	24.29	23.41	1.48	1.21	1.04	1.04	1.06
210.00	5.31	5.33	5.31	0.02	24.17	24.50	23.53	1.70	1.19	1.04	1.04	1.06
240.00	5.37	5.40	5.38	0.03	24.72	24.91	23.89	1.84	1.16	1.05	1.04	1.06
270.00	5.44	5.47	5.44	0.03	25.65	25.60	24.56	2.00	1.12	1.06	1.05	1.06
290.00	5.49	5.52	5.49	0.03	26.59	26.28	25.26	2.06	1.10	1.07	1.05	1.06
300.00	5.53	5.55	5.52	0.04	27.22	26.71	25.71	2.09	1.09	1.07	1.06	1.06

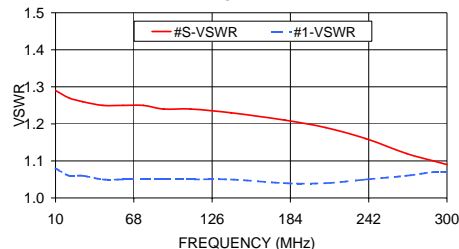
LRPS-3-1 INSERTION LOSS



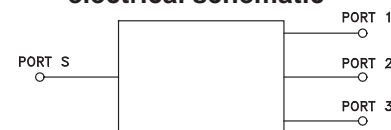
LRPS-3-1 ISOLATION



LRPS-3-1 VSWR



electrical schematic



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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