Power Splitter/Combiner

JCPS-8-850+ **JCPS-8-850**

8 Way-0°

 50Ω

10 to 850 MHz

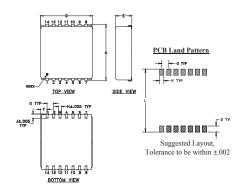
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.875W max.

Pin Connections

SUM PORT	1
PORT 1	3
PORT 2	4
PORT 3	5
PORT 4	6
PORT 5	9
PORT 6	10
PORT 7	11
PORT 8	12
GROUND	2,7,8,13,14

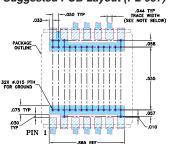
Outline Drawing



Outline Dimensions (inch)

G	F	Ε	D	С	В	Α
.100	.100	.250	.100		.800	.870
2.54	2.54	6.35	2.54		20.32	22.10
wt			L	K	J	Н
grams			.890	.065	.065	.047
4.0			22.61	1.65	1.65	1.19

Demo Board MCL P/N: TB-134 Suggested PCB Layout (PL-037)



1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015"; COPPER: 1/2 02. 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 BARC COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, 10 to 850 MHz
- aqueous washable
- · shielded metal case
- · J-leads for good solderability & strain relief

Applications

- VHF/UHF
- cellular
- instrumentation
- · communication systems

CASE STYLE: BG291

Generic photo used for illustration purposes only

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

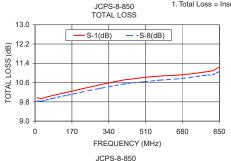
Electrical Specifications

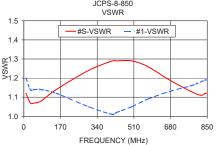
FREQ. RANGE (MHz)	ı	(dB)	N		TION LOS BOVE 9.0		PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L M U		M U		M	U	L	M	U	L	M	U
f _L -f _U	Typ. Min	Typ. Min	Typ. Min	Тур. Мах.	Тур. Мах.	Тур. Мах.	Max.	Max.	Max.	Max.	Max.	Max.
10-850	34 20	25 17	20 15	0.8 1.5	1.0 2.5	1.8 3.0	5	10	20	0.6	0.7	1.0

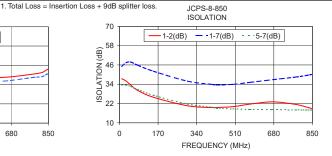
L = low range [f, to 10 f,] M = mid range [10 f, to f,/2] U = upper range [f,/2 to f,]

Typical Performance Data

Freq. (MHz)	Total Loss¹ (dB)				Amplitude Unbalance (dB)	Isolation (dB)				VSWR S	VSWR 1	VSWR 8		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7			
10.00 30.00 50.00 80.00 150.00	9.97 9.94 9.99 10.06 10.20	9.88 9.85 9.90 9.96 10.08	9.85 9.82 9.85 9.92 10.05	9.85 9.83 9.87 9.93 10.05	9.83 9.81 9.87 9.94 10.08	9.84 9.83 9.88 9.94 10.08	0.14 0.13 0.14 0.14 0.15	37.47 35.88 33.43 30.18 25.88	45.11 47.49 47.78 45.86 42.07	36.73 35.30 33.03 29.90 25.65	33.59 33.43 32.56 30.72 27.12	1.12 1.07 1.07 1.08 1.14	1.20 1.14 1.14 1.14 1.12	1.24 1.18 1.18 1.17 1.15
300.00 410.00 430.00 500.00 575.00	10.51 10.71 10.73 10.81 10.87		10.48 10.50	10.48 10.55	10.61 10.64 10.75	10.36 10.54 10.57 10.63 10.70	0.19 0.24 0.25 0.26 0.30	20.60 19.46 19.55 20.04 21.63	35.90 33.82 33.59 33.93 35.15	20.40 19.25 19.32 19.84 21.98	21.65 19.70 19.00 18.67 18.29	1.24 1.29 1.29 1.29 1.26	1.05 1.01 1.02 1.05 1.09	1.08 1.02 1.02 1.05 1.10
675.00 775.00 820.00 840.00 850.00	10.92 11.03 11.10 11.20 11.25	10.95 11.05	10.77 10.81	10.91 11.02	11.32 11.44 11.59	10.77 10.89 10.93 11.02 11.05	0.43 0.62 0.71 0.78 0.82	23.04 21.47 19.95 19.15 18.91	36.83 38.45 39.36 39.94 40.13	26.33 25.87 22.83 21.31 20.89	18.19 18.10 18.03 18.03 18.03	1.19 1.13 1.11 1.12 1.12	1.13 1.16 1.18 1.19 1.19	1.16 1.21 1.24 1.25 1.26







electrical schematic



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