

Surface Mount 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

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
PRICE: \$69.95 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 9.0 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.
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

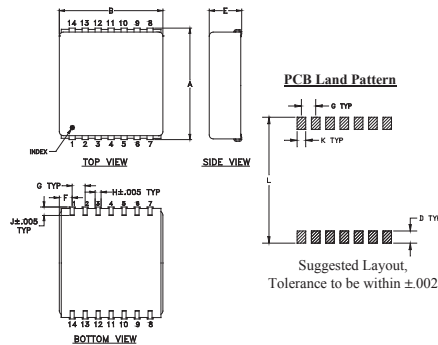
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (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	9.97	9.88	9.85	9.85	9.83		9.84	0.14	37.47	45.11			
30.00	9.94	9.85	9.82	9.83	9.81	9.83	0.13	35.88	47.49	35.30	33.43	1.07	1.14	1.18
50.00	9.99	9.90	9.85	9.87	9.87	9.88	0.14	33.43	47.78	33.03	32.56	1.07	1.14	1.18
80.00	10.06	9.96	9.92	9.93	9.94	9.94	0.14	30.18	45.86	29.90	30.72	1.08	1.14	1.17
150.00	10.20	10.08	10.05	10.05	10.08	10.08	0.15	25.88	42.07	25.65	27.12	1.14	1.12	1.15
300.00	10.51	10.35	10.32	10.32	10.39	10.36	0.19	20.60	35.90	20.40	21.65	1.24	1.05	1.08
410.00	10.71	10.51	10.48	10.47	10.61	10.54	0.24	19.46	33.82	19.25	19.70	1.29	1.01	1.02
430.00	10.73	10.54	10.50	10.48	10.64	10.57	0.25	19.55	33.59	19.32	19.00	1.29	1.02	1.02
500.00	10.81	10.59	10.56	10.55	10.75	10.63	0.26	20.04	33.93	19.84	18.67	1.29	1.05	1.05
575.00	10.87	10.66	10.61	10.63	10.88	10.70	0.30	21.63	35.15	21.98	18.29	1.26	1.09	1.10
675.00	10.92	10.76	10.66	10.70	11.05	10.77	0.43	23.04	36.83	26.33	18.19	1.19	1.13	1.16
775.00	11.03	10.95	10.77	10.86	11.32	10.89	0.62	21.47	38.45	25.87	18.10	1.13	1.16	1.21
820.00	11.10	11.05	10.81	10.91	11.44	10.93	0.71	19.95	39.36	22.83	18.03	1.11	1.18	1.24
840.00	11.20	11.16	10.90	11.02	11.59	11.02	0.78	19.15	39.94	21.31	18.03	1.12	1.19	1.25
850.00	11.25	11.23	10.94	11.08	11.67	11.05	0.82	18.91	40.13	20.89	18.03	1.12	1.19	1.26

1. Total Loss = Insertion Loss + 9dB splitter loss.

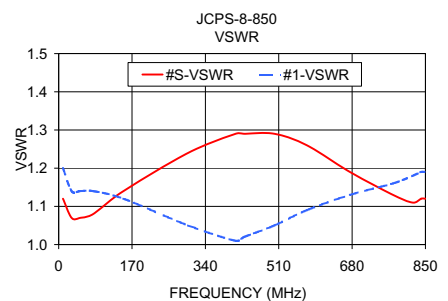
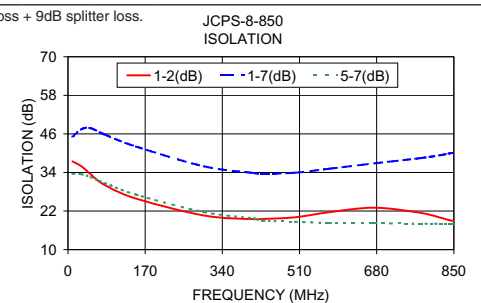
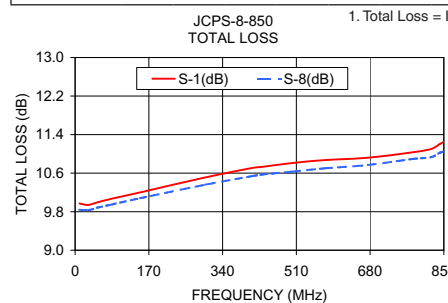
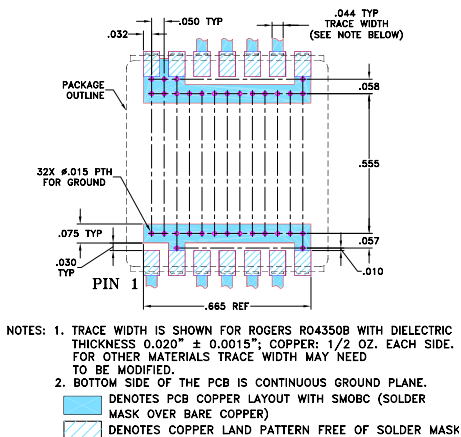
Outline Drawing



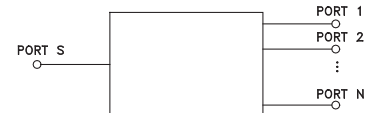
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.870	.800	--	.100	.250	.100	.100
22.10	20.32	--	2.54	6.35	2.54	2.54
H	J	K	L	wt		
.047	.065	.065	.890	grams		
1.19	1.65	1.65	22.61	4.0		

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



electrical schematic



Mini-Circuits
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