

Surface Mount

Power Splitter/Combiner

JPS-2-4-75+ JPS-2-4-75

2 Way-0° 75Ω 20 to 1000 MHz



CASE STYLE: BH292
PRICE: \$10.95 ea. QTY. (1-9)

+RoHS Compliant

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

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

Features

- low insertion loss, 0.4 dB typ.
- excellent insertion loss flatness, 0.2 dB peak to peak typ.
- excellent amplitude unbalance, 0.05 dB typ.
- good phase unbalance, 0.2 deg. typ.
- J-leads for excellent solderability and strain relief

Applications

- cable tv
- cellular

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
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
20-1000	27	20	29	20	27	16	0.35	0.7	0.4	0.8	0.45	1.0	2.0	2.0	3.0	0.2	0.2	0.3

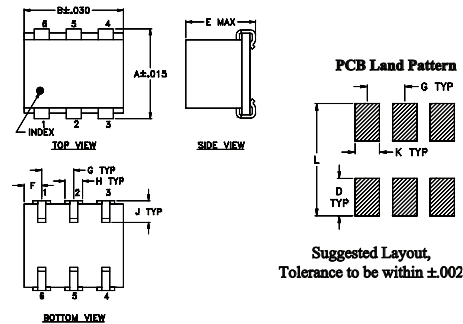
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
19.00	3.41	3.41	0.00	26.71	0.06	1.11	1.22	1.22
26.00	3.38	3.39	0.01	26.79	0.06	1.09	1.20	1.20
33.00	3.37	3.36	0.00	26.73	0.10	1.08	1.18	1.19
40.00	3.35	3.35	0.00	26.63	0.10	1.07	1.18	1.18
128.75	3.33	3.34	0.01	26.53	0.13	1.04	1.15	1.16
217.50	3.34	3.37	0.03	27.59	0.18	1.07	1.14	1.16
306.25	3.36	3.38	0.02	29.39	0.12	1.10	1.13	1.16
395.00	3.38	3.41	0.03	31.91	0.04	1.13	1.14	1.16
483.75	3.42	3.44	0.02	34.23	0.01	1.14	1.14	1.16
572.50	3.45	3.46	0.01	33.25	0.10	1.15	1.15	1.15
661.25	3.48	3.48	0.00	30.22	0.15	1.15	1.16	1.15
810.00	3.56	3.52	0.04	25.82	0.38	1.14	1.17	1.15
870.00	3.55	3.52	0.03	24.46	0.53	1.13	1.17	1.14
923.75	3.60	3.54	0.06	23.46	0.59	1.12	1.16	1.13
1031.25	3.68	3.60	0.08	21.84	0.68	1.12	1.15	1.13

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

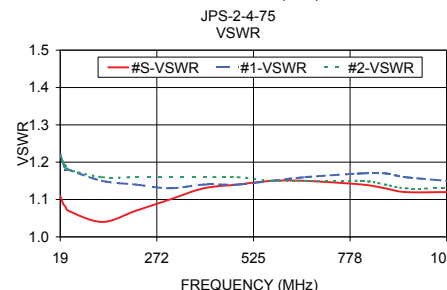
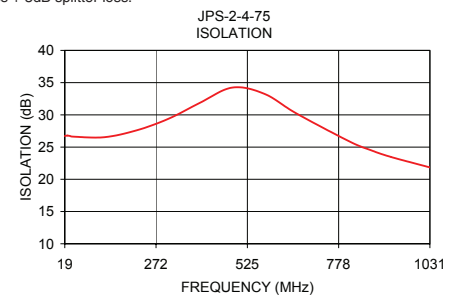
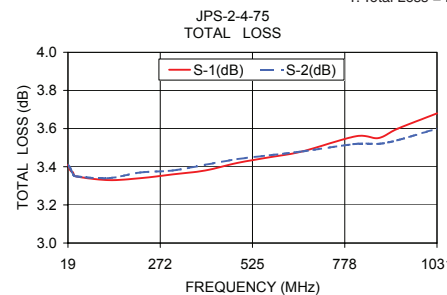
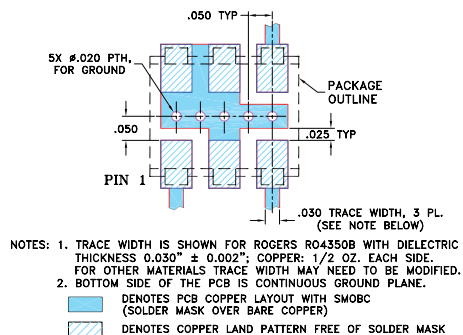
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.280	.310	--	.100	.225	.055	.100
7.11	7.87	--	2.54	5.72	1.40	2.54
H	J	K	L			wt
.047	.065	.065	.300			grams
1.19	1.65	1.65	7.62			0.45

Demo Board MCL P/N: TB-169 Suggested PCB Layout (PL-054)



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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