

Surface Mount Power Splitter/Combiner

16 Way-0° 50Ω 5 to 1000 MHz

JEPS-16-1W+
JEPS-16-1W



CASE STYLE: BL372
PRICE: \$79.95 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.

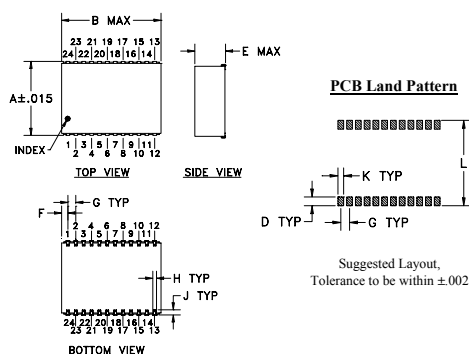
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	1.875W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

SUM PORT	18	PORT 9	13
PORT 1	2	PORT 10	14
PORT 2	3	PORT 11	15
PORT 3	4	PORT 12	16
PORT 4	5	PORT 13	20
PORT 5	9	PORT 14	21
PORT 6	10	PORT 15	22
PORT 7	11	PORT 16	23
PORT 8	12	GROUND	1,6,7,8,17,19,24

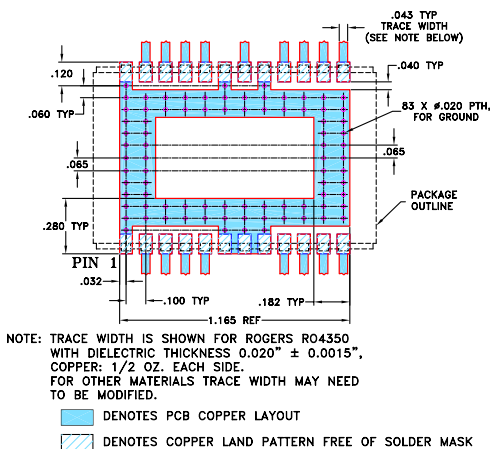
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.940	1.426	--	.100	.250	.163
23.88	36.22	--	2.54	6.35	4.14
G	H	J	K	L	wt
.100	.047	.065	.065	.970	grams
2.54	1.19	1.65	1.65	24.64	6.4

Demo Board MCL P/N: TB-135 Suggested PCB Layout (PL-090)



Features

- wideband, 5 to 1000 MHz
- good VSWR, 1.2 typ.
- good isolation, 23 dB typ.
- shielded metal case
- J-leads for good solderability and strain relief
- aqueous washable
- protected by U.S Patent 6,963,255

Applications

- clock distribution
- cellular

Electrical Specifications

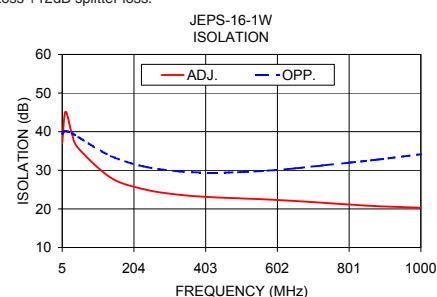
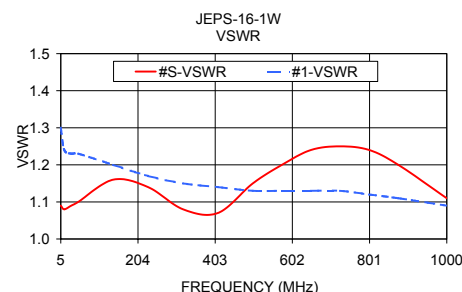
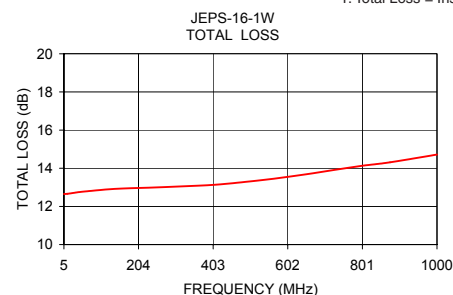
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 12 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			VSWR (:1)	
	L		M		U		L		M		U		L M U			L M U			S OUT	
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Typ.	Typ.
5-1000	36	23	23	17	20	15	0.8	2.0	1.5	2.5	3.0	4.2	8	13	20	1.5	1.2	1.8	1.2	1.2

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)		Phase Unbalance (deg.)	VSWR S	VSWR OUT
			Adjacent	Opposite			
5.00	12.65	0.71	37.04	39.47	1.56	1.09	1.30
14.00	12.66	0.66	45.14	40.14	0.51	1.08	1.24
32.00	12.71	0.63	39.39	39.61	0.34	1.09	1.23
50.00	12.76	0.64	35.69	38.58	0.71	1.10	1.23
140.00	12.92	0.64	28.07	33.68	2.06	1.16	1.20
230.00	12.98	0.70	25.13	31.03	2.97	1.14	1.17
320.00	13.05	0.77	23.75	29.80	3.41	1.08	1.15
410.00	13.14	0.74	23.08	29.39	4.59	1.07	1.14
500.00	13.31	0.58	22.73	29.52	5.75	1.15	1.13
575.00	13.48	0.37	22.43	29.92	6.57	1.20	1.13
650.00	13.68	0.42	22.06	30.50	7.25	1.24	1.13
725.00	13.91	0.54	21.62	31.22	7.63	1.25	1.13
800.00	14.13	0.61	21.14	31.98	7.58	1.24	1.12
875.00	14.31	0.63	20.72	32.72	9.11	1.20	1.11
1000.00	14.72	0.55	20.30	34.16	11.29	1.11	1.09

1. Total Loss = Insertion Loss + 12dB splitter loss.



electrical schematic



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IFIRF MICROWAVE COMPONENTS

For detailed performance specs
& shopping online see web site

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