

Surface Mount Power Splitter/Combiner

JYPS-2-4-75+ JYPS-2-4-75

2 Way-0° 75Ω 5 to 1000 MHz



Maximum Ratings

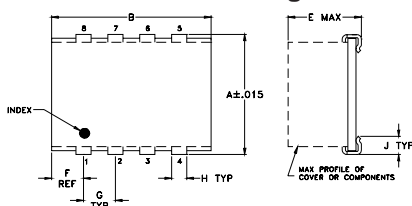
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

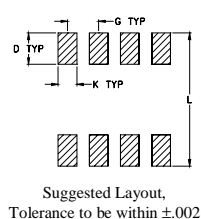
Pin Connections

SUM PORT	1
PORT 1	3
PORT 2	6
GROUND	7,8
NOT USED	2,4,5

Outline Drawing



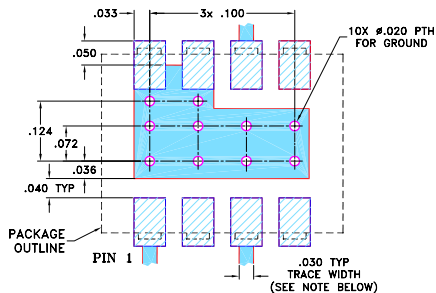
PCB Land Pattern



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.395	.500	--	.100	.230	.100	.100
10.03	12.70	--	2.54	5.84	2.54	2.54
H	J	K	L	wt		
.047	.065	.065	.425	grams		
1.19	1.65	1.65	10.80	0.80		

Demo Board MCL P/N: TB-105 Suggested PCB Layout (PL-069)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.030" ± 0.002"; COPPER: 1/2 OZ. 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 BARE COPPER)
■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, 5 to 1000 MHz
- excellent insertion loss 0.4 dB typ.
- good isolation, 25 dB typ.
- excellent VSWR, 1.1:1 typ.

Applications

- cable TV
- VHF/UHF
- communications systems

CASE STYLE: BJ293
PRICE: \$16.95 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

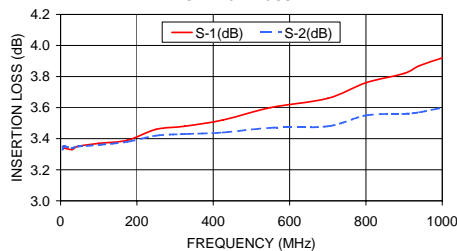
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-1000	24	17	25	20	30	18	0.4	0.8	0.4	1.0	0.8	1.5	3.0	4.0	5.0	0.2	0.3	0.4

L = 5-50 MHz M = 50-500 MHz U = 500-1000 MHz

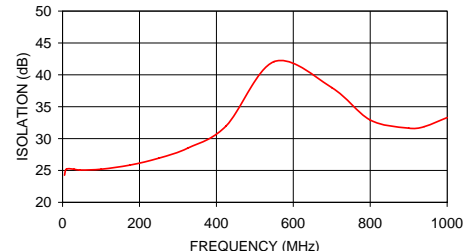
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
5.00	3.35	3.33	0.02	24.26	0.03	1.06	1.23	1.24
10.00	3.34	3.35	0.01	25.21	0.01	1.05	1.21	1.21
30.00	3.33	3.34	0.01	25.19	0.05	1.04	1.20	1.21
45.00	3.35	3.35	0.00	25.07	0.08	1.05	1.20	1.21
100.00	3.37	3.36	0.00	25.19	0.16	1.08	1.20	1.20
175.00	3.39	3.38	0.02	25.84	0.34	1.14	1.19	1.19
250.00	3.46	3.42	0.04	26.93	0.46	1.19	1.18	1.18
325.00	3.48	3.43	0.04	28.49	0.61	1.23	1.17	1.17
425.00	3.52	3.44	0.07	31.97	0.73	1.26	1.16	1.15
550.00	3.60	3.47	0.14	42.08	0.86	1.24	1.12	1.11
700.00	3.66	3.48	0.18	37.99	0.84	1.16	1.07	1.06
800.00	3.76	3.55	0.21	32.92	0.84	1.09	1.05	1.07
900.00	3.82	3.56	0.27	31.64	0.59	1.03	1.06	1.10
940.00	3.87	3.57	0.30	31.86	0.42	1.02	1.07	1.12
1000.00	3.92	3.60	0.32	33.30	0.12	1.04	1.07	1.13

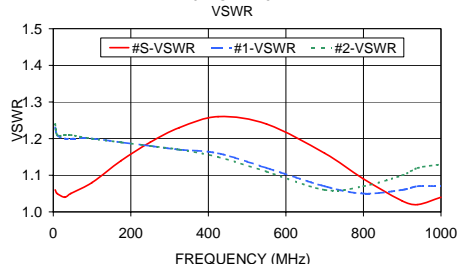
JYPS-2-4-75
INSERTION LOSS



JYPS-2-4-75
ISOLATION



JYPS-2-4-75
VSWR



electrical schematic



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IFIRF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

REV. B
M102713
JYPS-2-4-75
ED-4100
DY/TD/CP
090824

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