Surface-Mount

Power Splitter/Combiner

4 Way-0°, 50Ω, 5 to 1000 MHz

NEW!

JS4PS-1W

(patent pending)

CASE STYLE: BK377
PRICE: $14.95
QTY.: (1-9)

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	0.375W max.

Features

- wideband frequency, 5-1000 MHz
- good input matching, VSWR 1.2 typ.
- good output matching, VSWR 1.1 typ.
- shielded case

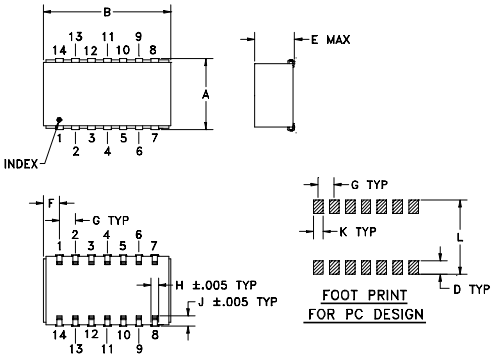
Pin Configuration

SUM PORT	10
PORT 1	2
PORT 2	3
PORT 3	5
PORT 4	6
GROUND	all others

Applications

- UHF/VHF receivers/transmitters
- cellular/GSM
- cable tv

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.505	.789	—	.100	.250	.095	.100
12.83	20.04	—	2.54	6.35	2.41	2.54

H	J	K	L	wt.
.047	.065	.065	.525	grams
1.19	1.65	1.65	13.34	3.0

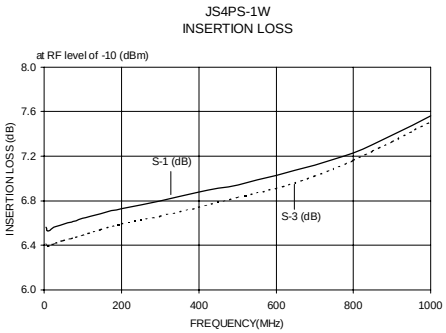
Electrical Specifications

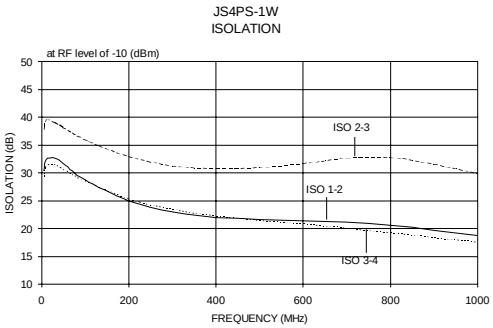
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 6 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
f_L-f_U	L Typ. Min.	M Typ. Min.	U Typ. Min.	L Typ. Max.	M Typ. Max.	U Typ. Max.	L Max.	M Max.	U Max.	L Max.	M Max.	U Max.
5-1000	29 20	26 18	20 15	0.3 1.1	0.8 1.5	1.5 2.4	5	5	12	0.8	0.7	0.7

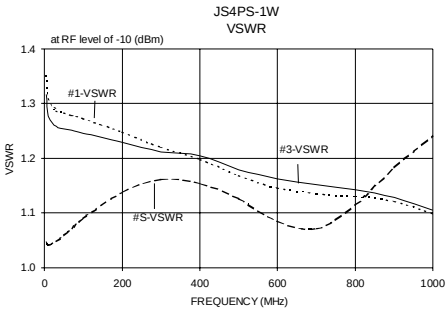
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB) S-1	S-2	S-3	S-4	AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	2-3	3-4	PHASE UNBAL. (Deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
5.00	6.56	6.36	6.41	6.21	0.36	30.36	37.82	29.37	0.69	1.05	1.35	1.29	1.32	1.26
10.00	6.53	6.34	6.39	6.20	0.34	32.42	39.54	31.18	0.39	1.04	1.31	1.25	1.28	1.23
30.00	6.57	6.38	6.42	6.24	0.33	32.75	39.14	31.56	0.18	1.05	1.29	1.24	1.26	1.21
50.00	6.59	6.40	6.44	6.26	0.33	31.59	38.16	30.74	0.23	1.06	1.28	1.23	1.25	1.21
70.00	6.61	6.42	6.46	6.28	0.33	30.35	37.24	29.84	0.28	1.07	1.28	1.23	1.25	1.21
100.00	6.64	6.44	6.49	6.30	0.34	28.75	36.00	28.60	0.48	1.09	1.27	1.22	1.25	1.20
200.00	6.73	6.54	6.59	6.40	0.33	25.05	32.97	25.41	0.99	1.14	1.25	1.20	1.23	1.19
300.00	6.80	6.62	6.66	6.48	0.32	23.04	31.34	23.48	1.43	1.16	1.22	1.18	1.21	1.17
400.00	6.88	6.70	6.74	6.56	0.32	22.03	30.78	22.32	1.93	1.15	1.20	1.17	1.21	1.16
500.00	6.94	6.77	6.83	6.64	0.31	21.60	30.97	21.54	2.25	1.13	1.17	1.16	1.18	1.15
600.00	7.03	6.88	6.91	6.74	0.29	21.44	31.71	20.88	2.64	1.09	1.15	1.16	1.16	1.15
700.00	7.12	6.99	7.02	6.85	0.26	21.20	32.66	20.14	2.87	1.07	1.14	1.17	1.15	1.16
800.00	7.23	7.13	7.16	7.00	0.24	20.60	32.77	19.28	3.13	1.12	1.13	1.18	1.14	1.16
900.00	7.39	7.33	7.33	7.19	0.20	19.68	31.58	18.40	3.28	1.18	1.12	1.19	1.13	1.16
1000.00	7.56	7.56	7.51	7.39	0.17	18.66	29.87	17.60	3.43	1.24	1.10	1.19	1.10	1.15







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