



Features

- wideband, 10 to 650 MHz
- excellent amplitude unbalance, 0.4 dB typ.

Applications

- VHF/UHF
- receivers/transmitters
- federal and defense communication

JY-SCP-4-1W+



4 Way-0° 50Ω 10 to 650 MHz

Electrical Schematic



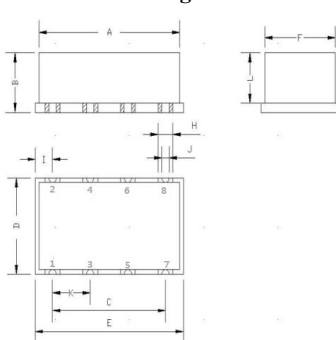
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 4.8 dB.		Phase Unbalance (Degrees) Max.	Amplitude Unbalance(dB) Max.
	min	max	min	max		
10~650	15	34	0.7	1.9	12	0.7

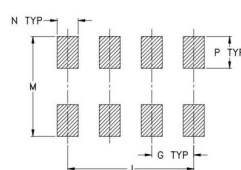
Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Freq. (MHz)	Total Loss (dB)				Amp. Unbal. (dB)	Isolation(dB)			Phase Unbal. (deg.)	VSWRS				
	S-1	S-2	S-3	S-4		1-2	2-3	3-4		S	1	2	3	4
10	6.38	6.36	6.36	6.36	0.02	37.18	42.07	38.05	0.07	1.07	1.13	1.13	1.12	1.12
30	6.41	6.39	6.39	6.38	0.02	36.10	42.30	36.46	0.12	1.06	1.12	1.12	1.12	1.12
90	6.44	6.43	6.43	6.42	0.02	33.76	39.74	33.67	0.43	1.05	1.12	1.12	1.12	1.12
120	6.47	6.46	6.46	6.44	0.03	32.46	38.76	32.19	0.58	1.04	1.12	1.12	1.12	1.12
150	6.50	6.49	6.49	6.47	0.03	31.21	38.02	30.82	0.70	1.03	1.12	1.12	1.12	1.12
180	6.47	6.48	6.48	6.45	0.03	29.92	37.23	29.49	0.85	1.02	1.11	1.11	1.11	1.11
210	6.51	6.52	6.52	6.49	0.04	28.87	36.52	28.36	0.95	1.01	1.11	1.11	1.11	1.11
240	6.55	6.56	6.56	6.52	0.04	27.96	35.86	27.40	1.10	1.01	1.10	1.11	1.10	1.10
300	6.58	6.59	6.59	6.54	0.05	26.21	34.39	25.59	1.33	1.05	1.09	1.09	1.09	1.09
375	6.63	6.65	6.66	6.58	0.08	24.48	32.64	23.81	1.69	1.10	1.07	1.08	1.08	1.08
450	6.70	6.75	6.75	6.63	0.12	23.16	31.19	22.46	1.94	1.15	1.06	1.07	1.06	1.06
525	6.77	6.86	6.86	6.70	0.15	22.23	30.20	21.51	2.32	1.21	1.04	1.05	1.04	1.04
575	6.79	6.88	6.87	6.69	0.19	21.76	29.83	21.04	2.45	1.24	1.03	1.05	1.04	1.04
625	6.83	6.95	6.94	6.73	0.22	21.73	29.74	20.65	2.66	1.28	1.03	1.05	1.03	1.03
650	6.88	7.01	6.99	6.77	0.25	21.19	29.79	20.47	2.73	1.29	1.03	1.05	1.03	1.03

Outline Drawing



PCB Land Pattern

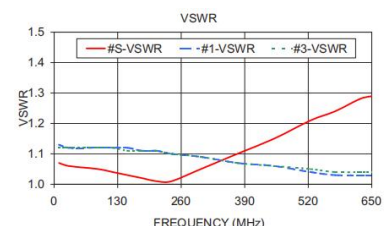
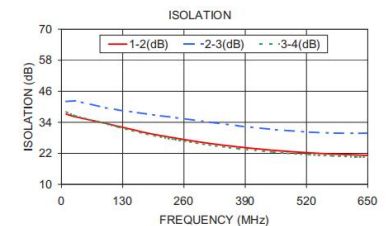
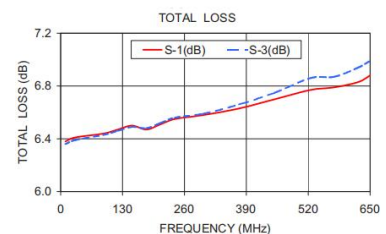


Pin Connections

SUM PORT	3
PORT 1	2
PORT 2	4
PORT 3	6
PORT 4	8
GROUND	1,5,7

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1 W max.
Internal Dissipation	0.25W max.
Permanent damage may occur if any of these limits are exceeded.	



Suggested L layout, Tolerance to be within ± 0.2

Outline Dimensions: Unit (mm)

A	19.00	G	5.08
B	6.50	H	2.00
C	15.24	I	2.35
D	10.50	J	1.00
E	20.30	K	5.08
F	9.50	M	11.94
N	2.54	P	3.81
L	5.50		