

Power Splitter/Combiner

Features

- wideband, 50 to 750 MHz
- low insertion loss, 0.4 dB typ.
- solder plated J-leads

Applications

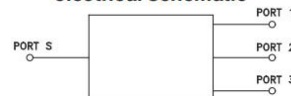
- VHF/UHF
- defense & federal communications

HT-JPS-3-1W+



2 Way-0° 50Ω 50 to 750 MHz

electrical schematic



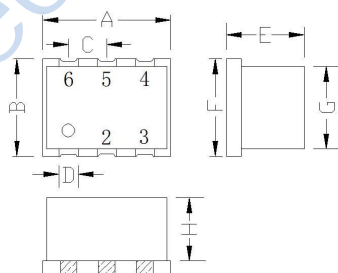
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 3.0 dB.		Phase Unbalance (Degrees) max.	Amplitude Unbalance (dB)	
	min	max	min	max		min	max
50-750	17	25	0.4	1.4	7	0.3	0.6

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

Freq. (MHz)	Total Loss (dB)			Amp. Unbal. (dB)	Isolation(dB)			PhaseUnbal. (deg.)	VSWRS			
	S-1	S-2	S-3		1-2	1-3	2-3		S	1	2	3
50	5.00	5.04	5.04	0.04	24.56	24.48	24.08	0.21	1.29	1.20	1.18	1.20
80	5.01	5.05	5.05	0.04	24.55	23.55	23.95	0.31	1.24	1.15	1.14	1.15
100	5.03	5.06	5.07	0.04	24.43	23.52	23.76	0.51	1.23	1.13	1.13	1.12
130	5.05	5.09	5.08	0.04	24.47	23.65	23.56	0.60	1.25	1.12	1.13	1.11
160	5.07	5.12	5.13	0.06	24.41	23.68	23.24	0.67	1.26	1.11	1.12	1.10
190	5.10	5.15	5.17	0.07	23.95	23.40	22.67	0.78	1.26	1.10	1.11	1.11
220	5.13	5.16	5.16	0.04	23.77	23.21	22.32	0.91	1.26	1.09	1.09	1.11
280	5.17	5.22	5.24	0.07	23.87	23.42	21.85	1.07	1.28	1.09	1.10	1.10
300	5.16	5.21	5.21	0.05	23.69	23.30	21.59	0.99	1.28	1.0	1.11	1.10
350	5.22	5.28	5.28	0.06	23.72	23.37	21.16	1.13	1.29	1.11	1.12	1.12
425	5.30	5.35	5.35	0.05	23.48	23.19	20.45	1.21	1.33	1.10	1.12	1.12
525	5.40	5.46	5.41	0.06	24.23	23.73	20.05	1.32	1.33	1.11	1.10	1.08
625	5.54	5.57	5.50	0.08	25.65	24.82	19.93	1.29	1.34	1.07	1.06	1.05
700	5.65	5.69	5.55	0.14	27.70	26.38	19.99	1.28	1.26	1.09	1.07	1.06
750	5.74	5.77	5.58	0.19	30.21	27.84	20.28	1.05	1.23	1.08	1.04	1.07

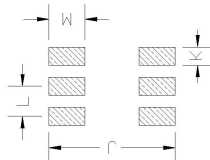
Outline Drawing



Suggested Layout,
Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)			
A	8.70	G	5.50
B	6.50	H	4.30
C	2.54	L	2.54
D	1.30	J	8.00
E	5.40	K	1.50
F	6.54	M	2.00
WT			0.5g

PCB Land Pattern



Pin Connections	
SUM PORT	1
PORT 1	6
PORT 2	4
PORT 3	3
GROUND	2,5

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	0.5W max.

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

