

Power Splitter/Combiner

HT-JPS-2-1+



2 Way-0° 50Ω 5 to 500 MHz

electrical schematic



Features

- low insertion loss
- excellent insertion loss flatness
- excellent amplitude unbalance

Applications

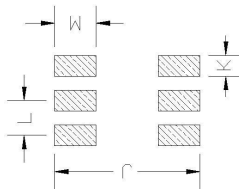
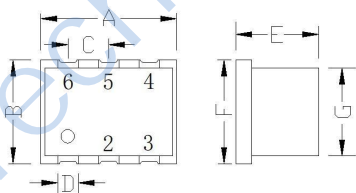
- VHF receivers/transmitters
- instrumentation

Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 3.0 dB.		Phase Unbalance (Degrees) Max.	Amplitude Unbalance (dB) Max.
	min	max	min	max		
5-500	20	38	0.16	0.9	2.0	0.3

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

Frequency. (MHz)	Total Loss (dB)		Amp. Unbal. (dB)	Isolation (dB)	PhaseUnbal. (deg.)	VSWRS		
	S-1	S-2				S	1	2
5	3.82	3.83	0.01	21.94	0.10	1.91	1.88	1.87
30	3.16	3.16	0.00	37.53	0.09	1.03	1.03	1.03
50	3.16	3.16	0.00	43.18	0.05	1.03	1.03	1.03
70	3.16	3.16	0.00	43.92	0.17	1.04	1.03	1.03
100	3.17	3.17	0.00	39.18	0.09	1.04	1.04	1.04
230	3.21	3.24	0.03	29.50	0.02	1.08	1.07	1.07
300	3.26	3.29	0.03	26.94	0.09	1.11	1.09	1.09
400	3.29	3.36	0.13	24.22	0.02	1.15	1.13	1.13
500	3.37	3.47	0.10	22.07	0.07	1.20	1.18	1.18



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		

Pin Connections

SUM PORT	1
PORT 1	3
PORT 2	4
GROUND	6
NOT USED	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	0.125W max.

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

