

Power Splitter/Combiner

HT-JPS-3-1+



3 Way-0° 50Ω 5 to 300 MHz

electrical schematic



Features

- wideband, 5 to 300 MHz
- high isolation, 33 dB typ.
- low insertion loss, 0.3 dB typ.

Applications

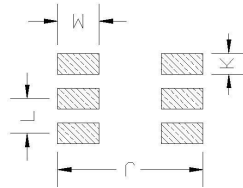
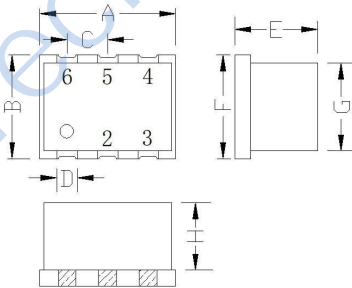
- VHF
- defense & federal communications
- amateur & FM radio

Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 3.0 dB.		Phase Unbalance (Degrees)	Amplitude Unbalance (dB)
	min	max	min	max		
5-300	20	34	0.3	1.4	2.0-6.0	0.4-0.6

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
5	4.96	5.08	5.03	0.12	36.91	33.62	35.80	0.62	1.09	1.11	1.13	1.16
8	4.93	5.07	5.00	0.14	37.89	34.24	35.50	0.52	1.07	1.08	1.10	1.14
10	4.94	5.04	5.00	0.11	38.11	34.35	35.29	0.36	1.06	1.07	1.10	1.13
20	4.95	5.04	4.99	0.09	37.92	34.31	34.69	0.22	1.04	1.06	1.08	1.12
35	4.98	5.06	5.02	0.08	37.22	33.58	33.72	0.13	1.04	1.05	1.07	1.11
50	4.99	5.08	5.05	0.09	36.36	33.15	32.78	0.13	1.03	1.04	1.06	1.11
65	5.01	5.10	5.04	0.08	35.45	32.52	31.94	0.25	1.03	1.04	1.05	1.11
80	5.03	5.11	5.06	0.08	34.62	31.74	31.15	0.26	1.04	1.04	1.05	1.10
95	5.05	5.13	5.08	0.08	34.24	31.40	30.56	0.14	1.04	1.04	1.05	1.09
110	5.08	5.15	5.10	0.07	34.06	31.26	30.29	0.23	1.04	1.04	1.05	1.09
130	5.11	5.17	5.12	0.06	34.13	31.25	29.99	0.37	1.05	1.04	1.05	1.08
170	5.18	5.22	5.16	0.05	33.68	30.69	28.91	0.41	1.03	1.03	1.07	1.07
210	5.24	5.27	5.22	0.05	35.00	30.99	28.88	0.54	1.07	1.01	1.07	1.07
250	5.34	5.32	5.27	0.07	40.60	33.64	29.78	0.57	1.12	1.02	1.08	1.08
300	5.50	5.45	5.37	0.12	41.62	40.75	30.25	0.91	1.11	1.02	1.12	1.11



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	±g		

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	0.375W max.

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

