



Features

- low insertion loss, 0.3 dB typ.
- good isolation, 25 dB typ..

Applications

- VHF/UHF
- defense & federal communications

JY-LRPS-3-1+



3 Way-0° 50Ω 10 to 300 MHz

electrical schematic



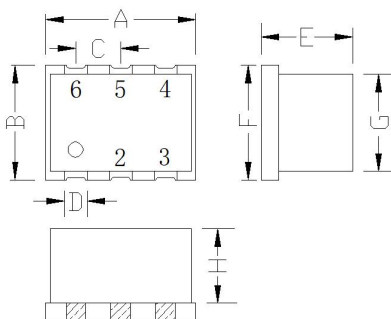
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 4.8 dB.		Phase Unbalance (Degrees) Max.	Amplitude Unbalance(dB) Max.
	min	max	min	max		
10~300	20	25	0.2	1.2	4	0.7

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
10.0	5.03	5.04	5.04	0.01	24	24	24	0.12	1.27	1.10	1.11	1.11
30.0	5.04	5.05	5.05	0.01	24	24	24	0.27	1.25	1.08	1.08	1.08
50.0	5.06	5.06	5.06	0.00	23	24	24	0.43	1.24	1.07	1.07	1.07
100.0	5.11	5.11	5.11	0.00	23	23	23	0.81	1.23	1.06	1.06	1.06
150.0	5.17	5.17	5.15	0.02	23	23	23	1.20	1.22	1.05	1.05	1.05
200.0	5.24	5.23	5.20	0.04	23	23	23	1.56	1.20	1.06	1.05	1.04
250.0	5.32	5.30	5.25	0.07	24	24	23	1.84	1.17	1.07	1.06	1.04
300.0	5.43	5.38	5.31	0.12	26	25	25	2.11	1.16	1.10	1.10	1.05

Outline Drawing

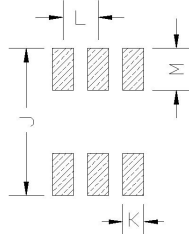


Suggested Layout,
Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)

A	8.70	J	8.00
B	6.50	K	1.50
C	2.54	G	5.50
D	1.30	H	4.30
E	5.40	L	2.54
F	6.50	M	2.00
WT	3g		

PCB Land Pattern



Pin Connections

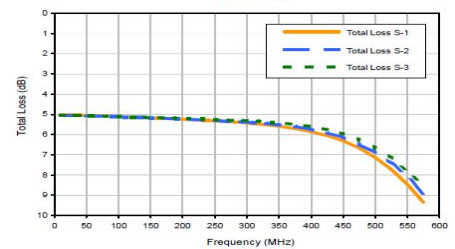
SUM PORT	6
PORT 1	1
PORT 2	2
PORT 3	3
GROUND	4,5

Maximum Ratings

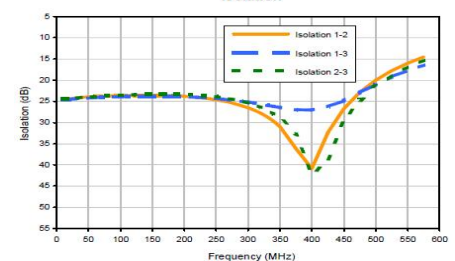
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1 W max.
Internal Dissipation	0.375W max.

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

Total Loss



Isolation



VSWR

