

Power Splitter/Combiner

Features

- low insertion loss, 0.8 dB typ.
- good isolation, 20 dB typ.

Applications

- PCS
- DCS
- ISM
- communications systems

Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 3.0 dB.		Phase Unbalance (Degrees) Max.	Amplitude Unbalance (dB) Max.
	min	typ.	typ.	max		
1700-2500	16	20	0.8	1.3	10	0.9

JY-LRPS-2-25+



2 Way-0° 50Ω 1700 to 2500 MHz

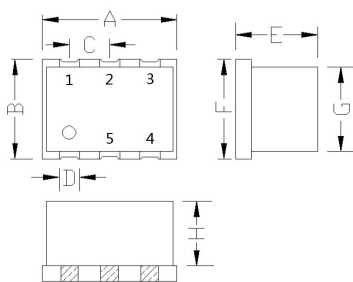
electrical schematic



Typical Performance Data

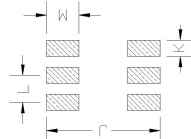
Frequency. (MHz)	Total Loss (dB)		Amp. Unbal. (dB)	Isolation (dB)	PhaseUnbal. (deg.)	VSWRS		
	S-1	S-2				S	1	2
1700	3.55	3.45	0.10	17.17	1.63	1.43	1.14	1.15
1732	3.55	3.45	0.10	17.52	1.55	1.40	1.13	1.16
1764	3.54	3.45	0.09	17.89	1.53	1.38	1.13	1.17
1828	3.53	3.46	0.07	18.73	1.43	1.35	1.12	1.19
1892	3.52	3.46	0.07	19.69	1.24	1.31	1.12	1.21
1956	3.52	3.47	0.05	20.83	1.13	1.28	1.12	1.25
2020	3.53	3.48	0.05	22.18	0.94	1.26	1.12	1.27
2084	3.53	3.49	0.04	23.91	0.75	1.25	1.11	1.30
2148	3.55	3.51	0.04	26.14	0.50	1.25	1.12	1.33
2212	3.56	3.54	0.02	29.31	0.34	1.25	1.12	1.36
2276	3.59	3.57	0.03	34.50	0.11	1.30	1.13	1.40
2340	3.63	3.61	0.03	40.88	0.21	1.32	1.14	1.43
2404	3.68	3.65	0.03	34.00	0.40	1.38	1.15	1.47
2468	3.74	3.70	0.03	28.52	0.79	1.44	1.16	1.51
2500	3.77	3.73	0.03	26.61	0.93	1.49	1.17	1.53

Outline Drawing



Suggested Layout,
Tolerance to be within ±0.2

PCB Land Pattern

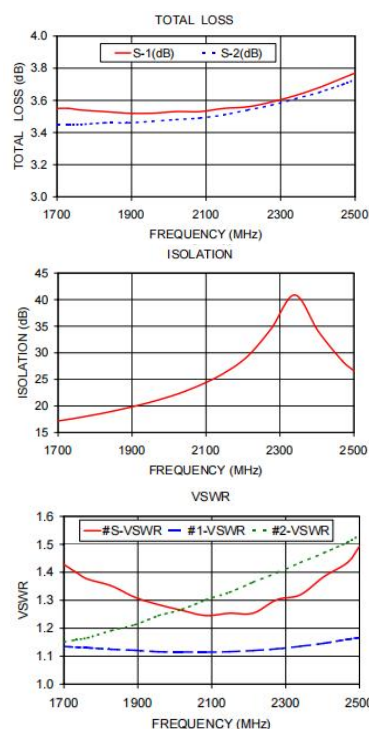


Pin Connections

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

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.	



Outline Dimensions: Unit (mm)				
A	8.70	G	H	5.50
B	6.50	H	H	4.30
C	2.54	L	L	2.54
D	1.30	J	M	8.00
E	5.40	K	J	1.50
F	6.54	M	K	2.00
WT	3g			