

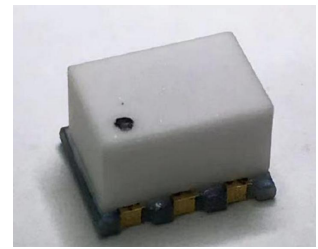
RFPS-JPS-3-1

Features

- wideband, 5 to 300 MHz
- high isolation, 28dB typ.
- good input port matching VSWR, 0.3 typ.
- small surface mount package

Applications

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



Electrical Schematic



Transformer Electrical Specifications

Freq. Range (MHz)	Isolation (dB)		Insertion Loss(dB) Above 3.0 dB		Phase Unbalance (Degrees)	Amplitude Unbalance (dB)
	Typ.	Max.	Typ.	Max.	Max.	Max.
5-300	18	28	0.8	1.5	6	0.6

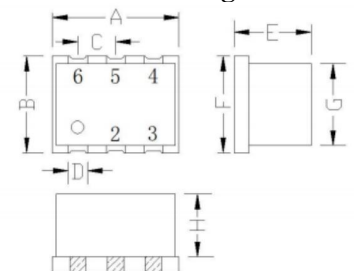
Typical Performance Data (TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Freq. (MHz)	Total Loss (dB)			Amp. Unbal. (dB)	Isolation(dB)			Phase Unbal. (deg.)	VSWRS			
	S-1	S-2	S-3		1-2	1-2	1-3		S	1	2	3
5.0	-5.03	-5.03	-5.03	0.08	-28.7	-27.6	-27.6	0.02	1.08	1.08	1.08	1.08
10.0	-4.99	-4.99	-4.99	0.08	-28.8	-27.8	-27.7	0.05	1.09	1.10	1.10	1.08
40.0	-4.95	-4.95	-4.94	0.08	-28.3	-27.3	-27.2	0.01	1.10	1.11	1.11	1.09
100.0	-4.98	-4.95	-4.95	0.07	-26.3	-25.8	-25.2	0.01	1.15	1.15	1.15	1.15
200.0	-5.16	-5.06	-5.04	0.07	-22.9	-22.8	-21.7	0.05	1.20	1.18	1.18	1.19
240.0	-5.24	-5.12	-5.09	0.07	-21.9	-21.9	-20.7	0.09	1.20	1.18	1.18	1.19
280.0	-5.34	-5.17	-5.12	0.07	-21.0	-21.0	-19.7	0.13	1.19	1.17	1.17	1.18
300.0	-5.38	-5.19	-5.13	0.07	-20.6	-20.6	-19.3	0.15	1.19	1.18	1.18	1.19
350.0	-5.58	-5.31	-5.22	0.07	-19.6	-19.6	-18.3	0.15	1.24	1.23	1.23	1.24

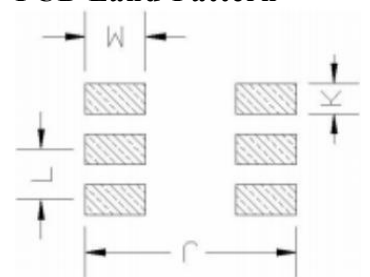
Pin Connections

SUM PORT	1(input)
PORT 1	3(output1)
PORT 2	4(output2)
PORT 3	6(output3)
GROUND	2,5

Outline Drawing

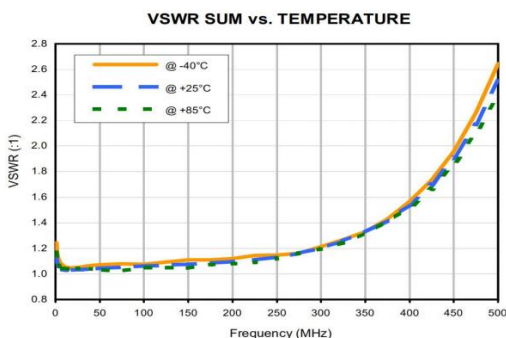
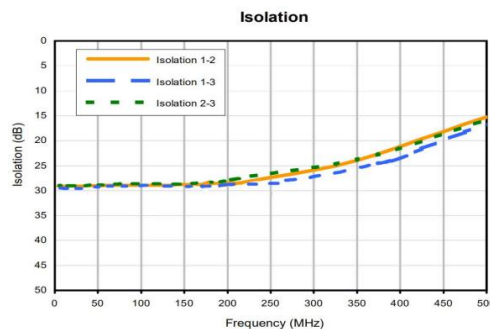
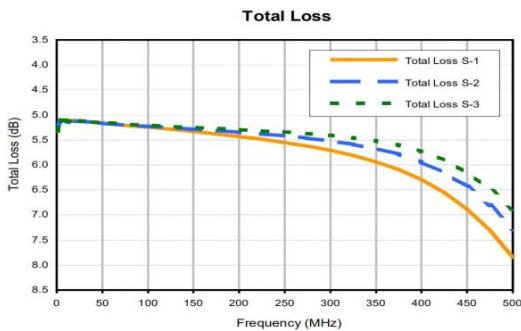


PCB Land Pattern



Outline Dimensions: Unit (mm)

A	8.70	J	7.60
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	0.5g		



Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.4W max.

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