

Features

- wideband, 1 to 400 MHz
- high isolation, 27 dB typ.
- good input port matching VSWR
- good output port matching VSWR
- small surface mount package

Applications

- VHF-TV
- aircraft communications

JY-AD5PS-1+



5 Way-0° 50Ω 1 to 400 MHz

electrical schematic



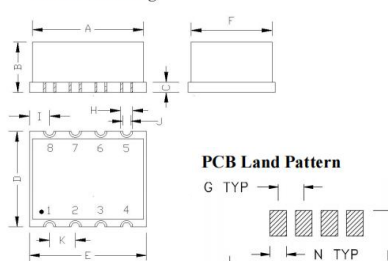
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 6.0 dB.		Phase Unbalance (Degrees)		Amplitude Unbalance (dB)	
	min	max	min	max	min	Max.	min	Max.
1-400	18	35	0.15	1.8	1	9	0.3	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.)	VSWR S	VSWR OUTPU TS
	S-1	S-2	S-3	S-4	S-5		1-2	1-3	2-3	3-5	4-5			
1.00	7.22	7.21	7.23	7.21	7.23	0.02	53.10	21.98	39.65	21.51	33.16	0.22	1.12	1.45
2.80	7.18	7.16	7.15	7.16	7.16	0.03	45.24	25.05	43.27	24.73	38.07	0.13	1.10	1.26
4.60	7.17	7.15	7.14	7.16	7.14	0.03	44.17	26.12	44.25	25.93	40.51	0.26	1.09	1.21
6.40	7.13	7.14	7.14	7.16	7.15	0.03	43.48	26.69	44.52	26.55	41.81	0.24	1.09	1.19
8.20	7.16	7.14	7.17	7.16	7.17	0.03	42.90	27.02	44.57	26.94	42.66	0.24	1.09	1.18
10.00	7.15	7.17	7.14	7.16	7.17	0.03	42.60	27.25	44.41	27.17	43.01	0.17	1.08	1.17
40.00	7.21	7.22	7.22	7.19	7.21	0.03	38.08	27.77	38.44	27.75	37.68	0.85	1.10	1.14
70.00	7.28	7.28	7.29	7.29	7.28	0.01	34.66	27.46	34.77	27.36	33.71	1.42	1.14	1.13
100.00	7.32	7.32	7.30	7.31	7.32	0.02	32.37	26.97	32.32	26.77	31.14	2.12	1.18	1.12
125.00	7.41	7.40	7.40	7.41	7.41	0.02	30.92	26.57	30.86	26.33	29.64	2.27	1.21	1.12
150.00	7.46	7.42	7.40	7.41	7.44	0.07	29.80	26.19	29.75	25.89	28.46	2.89	1.24	1.11
200.00	7.64	7.59	7.56	7.55	7.59	0.09	28.24	25.57	28.17	25.17	26.79	3.75	1.28	1.10
250.00	7.67	7.60	7.54	7.55	7.59	0.12	27.51	25.39	27.46	24.88	25.94	4.46	1.29	1.09
300.00	7.86	7.74	7.69	7.69	7.74	0.18	27.29	25.61	27.29	25.03	25.56	5.14	1.26	1.09
400.00	8.23	8.03	7.90	7.88	7.97	0.34	27.54	29.08	27.28	27.64	25.67	6.12	1.09	1.12

Outline Drawing



Suggested Layout,
Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)

A	10.00	G	2.54
B	5.10	H	1.21
C	1.00	I	2.00
D	9.5	J	0.80
E	11.80	K	2.54
F	8.00	M	2.0
N	1.52	P	10.67

Pin Connections

SUM PORT	1
PORT 1	8
PORT 2	7
PORT 3	6
PORT 4	5
PORT 5	4
GROUND	2,3

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5 W max.
Internal Dissipation	0.4W max.
Permanent damage may occur if any of these limits are exceeded.	