

Power Splitter/Combiner

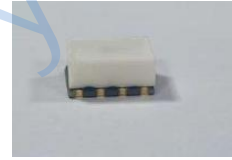
Features

- 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

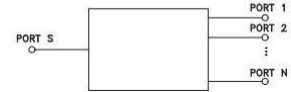
- VHF-TV
- aircraft communications

HT-AD5PS-1+



5 Way-0° 50Ω 1 to 400 MHz

electrical schematic



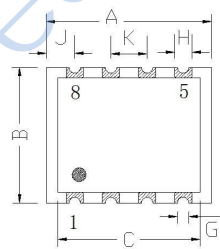
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 7.0 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

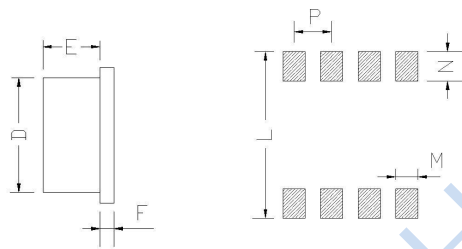
Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Freq. (MHz)	Total Loss (dB)					Amp. Unbal. (dB)	Isolation(dB)					Phase Unbal. (deg.)	VSWR S	VSWR OUTPUT 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



PCB Land Pattern



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

Outline Dimensions: Unit (mm)			
A	11.6	H	1.2
B	9.5	J	2.0
C	10.0	K	2.54
D	8.0	L	11.3
E	4.0	N	2.0
F	1.0	M	1.5
G	0.8	P	2.54

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.

