

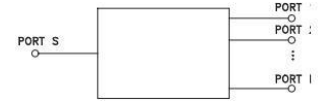
Power Splitter/Combiner

HT-AD6PS-1+



6 Way-0° 50Ω 2 to 250 MHz

electrical schematic



Features

- wideband, 2 to 250 MHz
- high isolation, 30 dB typ.
- good input port matching VSWR, 1.20 typ.
- good output port matching VSWR, 1.10 typ.
- small surface mount package

Applications

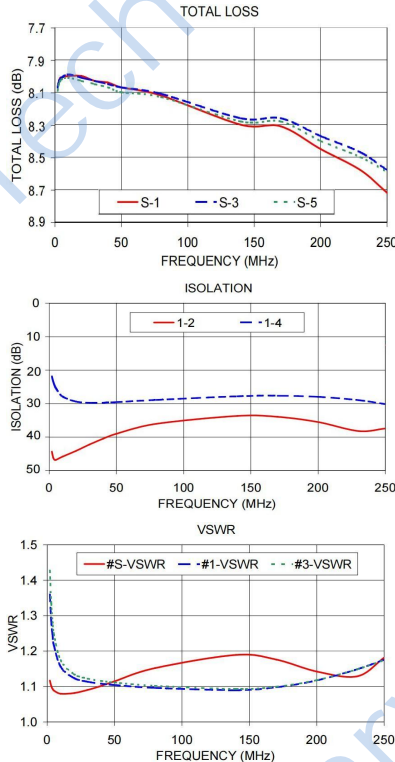
- VHF-TV

Transformer Electrical Specifications

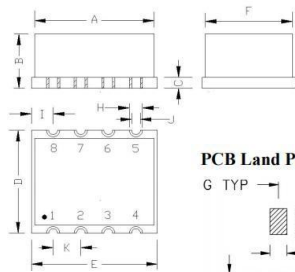
Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 6.0 dB.		Phase Unbalance (Degrees)		Amplitude Unbalance (dB)	
	min	max	min	max	min	Max.	min	Max.
2-250	17	35	0.2	1.5	2	9	0.3	0.6

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

Freq. (MHz)	Total Loss (dB)			Amp. Unbal. (dB)	Isolation(dB)		Phase Unbal. (deg.)	VSWRS	VSWR OUTPUTS
	S-1	S-3	S-5		Adjacent	Opposite			
2	8.07	8.07	8.09	0.02	44.32	21.86	0.17	1.12	1.43
3	8.03	8.03	8.05	0.02	46.13	23.38	0.15	1.10	1.33
4	8.01	8.02	8.03	0.02	46.77	24.50	0.14	1.09	1.28
5	8.01	8.01	8.02	0.01	46.81	25.38	0.22	1.09	1.25
10	8.00	7.99	8.01	0.02	45.82	27.85	0.32	1.08	1.17
20	8.00	8.01	8.03	0.03	44.12	29.38	0.52	1.08	1.13
30	8.03	8.03	8.05	0.02	42.21	29.73	0.80	1.09	1.12
40	8.04	8.05	8.07	0.03	40.48	29.69	0.98	1.10	1.12
50	8.07	8.07	8.10	0.03	39.00	29.54	1.28	1.11	1.11
80	8.12	8.11	8.13	0.03	36.01	28.87	2.03	1.15	1.10
140	8.30	8.26	8.28	0.04	33.66	27.80	3.30	1.19	1.09
170	8.31	8.26	8.28	0.06	33.93	27.65	3.95	1.18	1.10
200	8.45	8.37	8.40	0.08	35.49	27.95	4.50	1.14	1.12
230	8.58	8.47	8.50	0.11	38.19	28.94	4.94	1.13	1.15
250	8.72	8.58	8.59	0.17	37.43	30.14	5.29	1.18	1.17



Outline Drawing



Suggested Layout, Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)

A	10.00	G	2.54
B	5.00	H	1.21
C	1.00	I	2.00
D	9.5	J	0.80
E	10.10	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
PORT 6	3
GROUND	2

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	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	