

Power Splitter/Combiner

HT-ADP-2-10+

Features

- low insertion loss, 0.4 dB typ.
- excellent amplitude unbalance, 0.01 dB typ.
- very good phase unbalance, 0.3 deg. typ.
- aqueous washable

Applications

- VHF/UHF receivers/transmitters
- instrumentation

electrical schematic



2 Way-0° 50Ω 5 to 1000 MHz

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5-1000	15	25	0.3	1.2	2.0	3.0	0.2	0.3

Typical Performance Data

Freq. (MHz)	Total Loss (dB)		Amp. Unbal. (dB)	Isolation (dB)	Phase Unbal. (deg.)	VSWRS		
	S-1	S-2				S	1	2
5	3.22	3.23	0.01	22.55	0.06	1.04	1.24	1.24
10	3.23	3.23	0.00	25.33	0.03	1.03	1.19	1.19
25	3.23	3.23	0.00	26.82	0.02	1.03	1.16	1.16
50	3.26	3.26	0.00	26.58	0.06	1.03	1.16	1.16
80	3.28	3.28	0.00	26.00	0.14	1.04	1.16	1.16
150	3.32	3.33	0.01	24.51	0.21	1.07	1.16	1.16
250	3.36	3.36	0.01	22.61	0.39	1.11	1.16	1.15
350	3.41	3.41	0.00	21.19	0.57	1.14	1.16	1.14
450	3.49	3.48	0.00	20.24	0.66	1.16	1.15	1.12
550	3.56	3.54	0.02	19.64	0.76	1.18	1.14	1.10
650	3.60	3.58	0.02	19.39	0.75	1.18	1.12	1.07
750	3.66	3.65	0.01	19.60	0.73	1.17	1.10	1.05
850	3.70	3.68	0.02	20.39	0.92	1.16	1.09	1.06
950	3.79	3.76	0.03	21.81	0.69	1.16	1.10	1.11
1000	3.91	3.89	0.02	22.86	0.89	1.17	1.12	1.14

Maximum Ratings

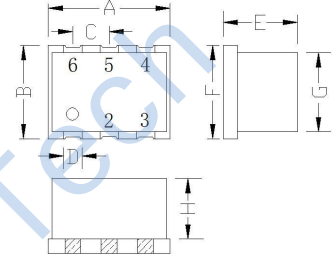
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.

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

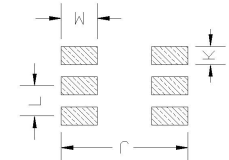
Pin Connections

SUM PORT	1
PORT 1	3
PORT 2	4
GROUND	6
NOT USED	2,5

Outline Drawing



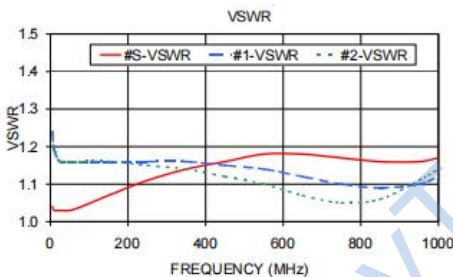
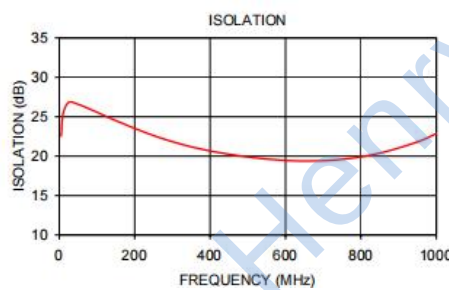
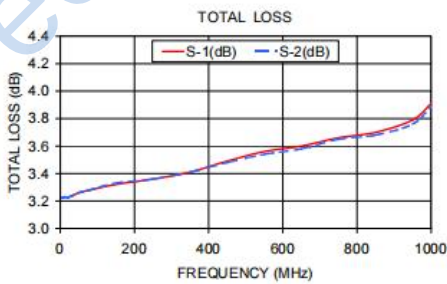
PCB Land Pattern



Suggested Layout,
Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)

A	8.70	G	5.50
B	6.50	H	4.30
C	2.54	L	2.54
D	1.30	J	8.00
E	5.40	K	1.50
F	6.54	M	2.00
WT	0.5g		



Suggested PCB Layout

