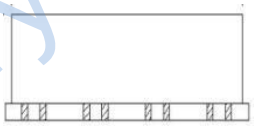
HenryTech

Power Splitter/Combiner

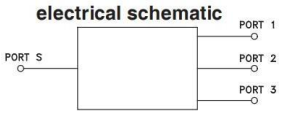
HT-SCP-4-1W+

Features
- wideband, 10 to 650 MHz
- excellent amplitude unbalance, 0.4 dB typ.

Applications
- VHF/UHF
- receivers/transmitters
- federal and defense communication



4 Way-0° 50Ω 10 to 650 MHz



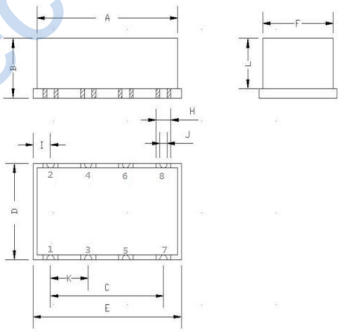
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB) min	Isolation(dB) max	Insertion Loss (dB) Above 4.8 dB. min	Insertion Loss (dB) Above 4.8 dB. max	Phase Unbalance (Degrees) Max.	Amplitude Unbalance(dB) Max.
10~650	15	34	0.7	1.9	12	0.7

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

Freq. (MHz)	Total Loss (dB) S-1	S-2	S-3	S-4	Amp. Unbal. (dB)	Isolation(dB) 1-2	2-3	3-4	Phase Unbal. (deg.)	VSWRS S	1	2	3	4
10	6.38	6.36	6.36	6.36	0.02	37.18	42.07	38.05	0.07	1.07	1.13	1.13	1.12	1.12
30	6.41	6.39	6.39	6.38	0.02	36.10	42.30	36.46	0.12	1.06	1.12	1.12	1.12	1.12
90	6.44	6.43	6.43	6.42	0.02	33.76	39.74	33.67	0.43	1.05	1.12	1.12	1.12	1.12
120	6.47	6.46	6.46	6.44	0.03	32.46	38.76	32.19	0.58	1.04	1.12	1.12	1.12	1.12
150	6.50	6.49	6.49	6.47	0.03	31.21	38.02	30.82	0.70	1.03	1.12	1.12	1.12	1.12
180	6.47	6.48	6.48	6.45	0.03	29.92	37.23	29.49	0.85	1.02	1.11	1.11	1.11	1.11
210	6.51	6.52	6.52	6.49	0.04	28.87	36.52	28.36	0.95	1.01	1.11	1.11	1.11	1.11
240	6.55	6.56	6.56	6.52	0.04	27.96	35.86	27.40	1.10	1.01	1.10	1.11	1.10	1.10
300	6.58	6.59	6.59	6.54	0.05	26.21	34.39	25.59	1.33	1.05	1.09	1.09	1.09	1.09
375	6.63	6.65	6.66	6.58	0.08	24.48	32.64	23.81	1.69	1.10	1.07	1.08	1.08	1.08
450	6.70	6.75	6.75	6.63	0.12	23.16	31.19	22.46	1.94	1.15	1.06	1.07	1.06	1.06
525	6.77	6.86	6.86	6.70	0.15	22.23	30.20	21.51	2.32	1.21	1.04	1.05	1.04	1.04
575	6.79	6.88	6.87	6.69	0.19	21.76	29.83	21.04	2.45	1.24	1.03	1.05	1.04	1.04
625	6.83	6.95	6.94	6.73	0.22	21.73	29.74	20.65	2.66	1.28	1.03	1.05	1.03	1.03
650	6.88	7.01	6.99	6.77	0.25	21.19	29.79	20.47	2.73	1.29	1.03	1.05	1.03	1.03

Outline Drawing

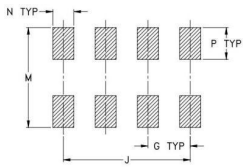


Suggested L ayout, Tolerance to be within ±0.2

Outline Dimensions：Unit (mm)

A	19.00	G	5.08
B	6.00	H	2.00
C	15.24	I	2.35
D	10.50	J	1.00
E	20.00	K	5.08
F	9.50	M	11.94
N	2.54	P	3.81
L	5.00		

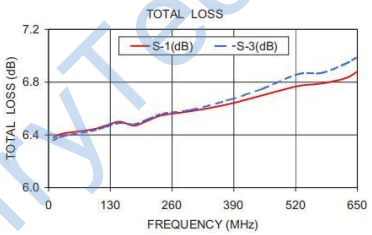
PCB Land Pattern

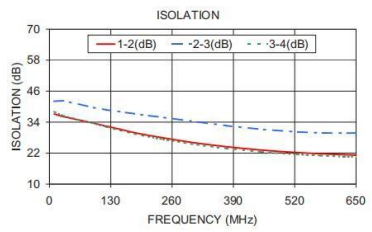


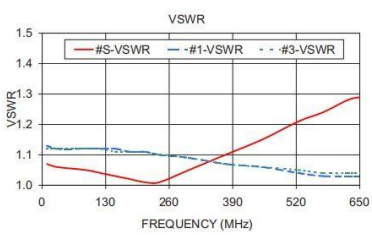
Pin Connections	
SUM PORT	3
PORT 1	2
PORT 2	4
PORT 3	6
PORT 4	8
GROUND	1,5,7

Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1 W max.
Internal Dissipation	0.25W max.

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







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