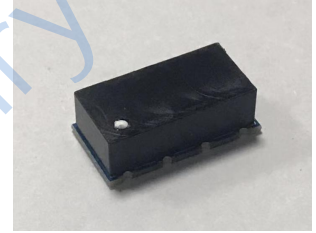


# Power Splitter/Combiner

## HT-SCP-5-1+



5 Way-0° 50Ω 2 to 200 MHz

### Features

- wideband, 2 to 200 MHz
- low insertion loss, 0.3 dB typ.
- high isolation 29 dB typ.
- excellent amplitude unbalance, 0.3 dB typ

### Applications

- VHF
- receivers/transmitters
- instrumentation

### Transformer Electrical Specifications

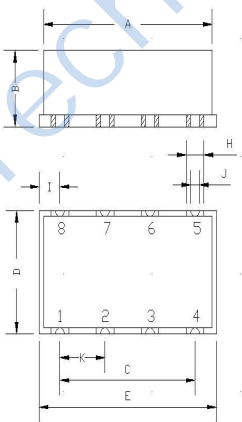
Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 4.8 dB.		Phase Unbalance (Degrees) Max.	Amplitude Unbalance(dB) Max.
	min	max	min	max		
2~200	20	30	0.2	0.75	5	0.6

### electrical schematic

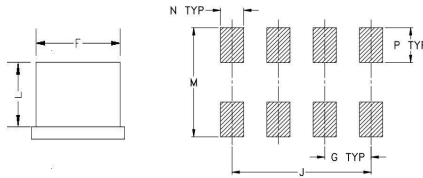


Freq. (MHz)	Total Loss (dB)					Amp. Unbal. (dB)	Isolation (dB)				PhaseUnbal. (deg.)	VSWRS	
	S-1	S-2	S-3	S-4	S-5		1-2	2-3	2-4	3-5		S	OUTPUTS
2.0	-7.09	-7.05	-7.06	-7.08	-7.05	0.04	-31.23	-31.63	-22.77	-22.09	0.04	1.11	1.13
12.0	-7.09	-7.05	-7.06	-7.07	-7.04	0.05	-36.17	-36.98	-36.43	-36.77	0.19	1.06	1.08
30.0	-7.09	-7.05	-7.06	-7.07	-7.04	0.05	-35.15	-35.04	-38.90	-39.78	0.46	1.09	1.11
60.0	-7.12	-7.07	-7.08	-7.11	-7.09	0.05	-32.05	-31.47	-33.48	-34.77	0.88	1.18	1.18
90.0	-7.16	-7.10	-7.11	-7.15	-7.15	0.06	-29.50	-28.68	-30.24	-31.71	1.23	1.26	1.26
120.0	-7.23	-7.15	-7.17	-7.21	-7.26	0.09	-27.62	-26.66	-28.16	-29.81	1.58	1.33	1.33
160.0	-7.30	-7.22	-7.23	-7.30	-7.40	0.18	-25.78	-24.61	-26.38	-28.28	2.04	1.39	1.39
200.0	-7.39	-7.28	-7.30	-7.40	-7.57	0.29	-24.33	-22.93	-25.23	-27.36	2.63	1.44	1.45
300.0	-8.09	-7.92	-7.98	-8.19	-8.73	0.81	-18.89	-17.27	-20.09	-21.51	3.10	2.00	2.03

### Outline Drawing



### PCB Land Pattern



### Pin Connections

SUM PORT	1 (input)
PORT 1	6 (output1)
PORT 2	5 (output2)
PORT 3	4 (output3)
PORT 4	3 (output4)
PORT 5	2 (output5)
GND	7,8

### Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.6W max.

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

### Outline Dimensions: Unit (mm)

A	19.00	G	5.08
B	6.50	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

