

# Power Splitter/Combiner

## Features

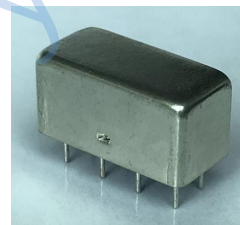
- wideband, 1 to 300 MHz
- low insertion loss, 0.4 dB typ.
- 2 Ways Power Splitter, 50Ω

## Applications

- VHF/UHF
- federal & defense communications
- amateur radio

Maximum Ratings
Operating Temperature -50°C to 100°C
Storage Temperature -40°C to 100°C
RF Power 1W
Internal Dissipation 0.125W max.
Permanent damage may occur if any of these limits are exceeded.

## HT-PSC-2-1+



## Transformer Electrical Specifications at 25°C

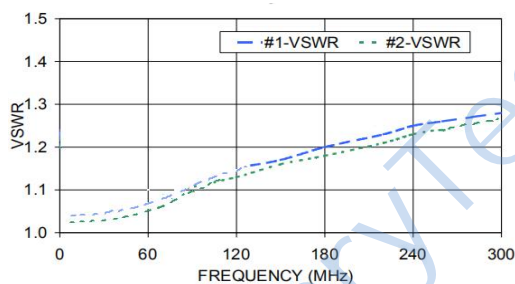
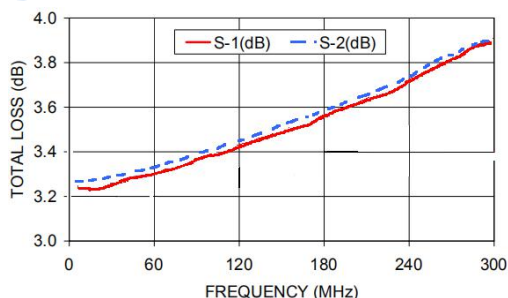
FREQUENCY (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB.		PHASE UNBALANCE (Degrees) typ
	min	max	min	max	
1-300	15	30	0.4	0.9	3.0

## electrical schematic

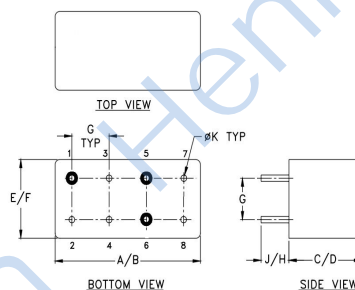


## Typical Performance Data

FREQUENCY (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR 1	VSWR 2
	S1	S2					
1.0	3.24	3.14	0.08	21.7	0.02	1.07	1.07
2.0	3.25	3.15	0.08	27.0	0.05	1.02	1.02
5.0	3.24	3.14	0.08	32.1	0.01	1.03	1.03
20.0	3.28	3.18	0.07	37.1	0.01	1.03	1.03
50.0	3.40	3.30	0.07	37.1	0.05	1.09	1.09
80.0	3.40	3.30	0.07	38.0	0.09	1.12	1.12
120.0	3.50	3.40	0.07	39.7	0.13	1.18	1.18
150.0	3.40	3.30	0.07	39.4	0.15	1.22	1.22
180.0	3.50	3.40	0.06	36.4	0.16	1.30	1.30
220.0	3.60	3.50	0.06	32.1	0.25	1.30	1.30
240.0	3.60	3.50	0.06	30.1	0.29	1.32	1.32
260.0	3.70	3.60	0.06	28.5	0.30	1.34	1.34
280.0	3.70	3.60	0.05	27.0	0.29	1.34	1.34
300.0	3.90	3.80	0.05	25.6	0.32	1.34	1.34



## Outline Drawing



Pin Connections	
SUM PORT	1 (input)
PORT 1	5 (output1)
PORT 2	6 (output2)
GROUND	2,3,4,7,8
CASE GROUND	2,3,4,7,8

## Unit (mm)

A	19.80
B	20.30
C	9.94
D	10.00
E	10.06
F	10.11
G	5.08
H	4.50
J	4.65
K	0.6

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