

Power Splitter/Combiner

HT-RPS-2-30+



2 Way-0° 50Ω 10 to 3000 MHz

electrical schematic



Features

- wideband, 10 to 3000 MHz
- good isolation, 22 dB typ.
- small size

Applications

- instrumentation
- catv
- cellular
- GSM

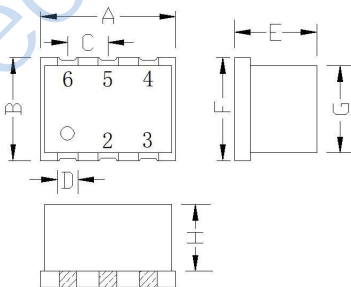
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 3.0 dB.		Phase Unbalance (Degrees)		Amplitude Unbalance (dB)	
	min	max	min	max	min	max	min	max
10-3000	12	22	0.6	2.5	2.0	8.0	0.3	1.2

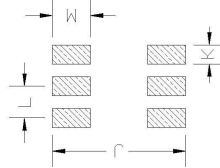
Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Frequency.(M Hz)	Total Loss (dB)		Amp. Unbal. (dB)	Isolation (dB)	PhaseUnbal. (deg.)	VSWRS		
	S-1	S-2				S	1	2
10	3.53	3.52	0.01	18.61	0.01	2.00	1.57	1.57
50	3.55	3.55	0.01	19.19	0.04	1.97	1.59	1.59
100	3.56	3.56	0.00	19.33	0.06	1.97	1.59	1.59
400	3.66	3.64	0.02	19.78	0.09	1.94	1.62	1.62
600	3.73	3.70	0.03	20.10	0.14	1.91	1.63	1.62
800	3.79	3.72	0.07	20.65	0.09	1.88	1.64	1.63
1000	3.85	3.74	0.11	21.64	0.02	1.87	1.66	1.63
1400	3.96	3.69	0.27	24.95	0.59	1.77	1.71	1.65
1600	4.00	3.66	0.34	26.31	0.88	1.74	1.72	1.64
1800	4.05	3.62	0.43	25.64	1.27	1.66	1.75	1.64
2000	4.18	3.65	0.52	23.38	1.59	1.61	1.74	1.63
2400	4.24	3.61	0.63	19.00	2.43	1.51	1.74	1.63
2600	4.32	3.65	0.67	17.42	2.83	1.54	1.75	1.64
2900	4.49	3.78	0.71	15.51	3.65	1.51	1.72	1.66
3000	4.68	3.93	0.75	15.02	4.13	1.52	1.72	1.68

Outline Drawing



PCB Land Pattern



Suggested L ayout, Tolerance to be within ±0.05

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

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	0.125W max.

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

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	±g		

