

Power Divider-PD

WGPD-87650R30J1T3

3 Way-0° 50 Ω 10 to 300 MHz



Ver. A
20221104

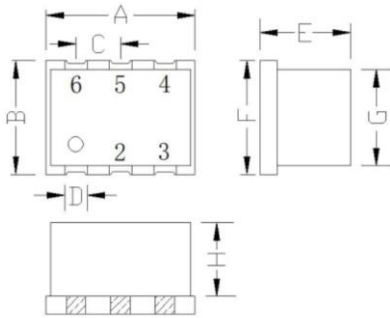
Maximum Rating

Operating Temperature	-40°C~+85°C
Storage Temperature	-55°C~+100°C
RF Input Power	1W max at 25°C
Internal Dissipation	0.375W max

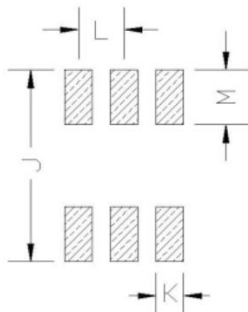
Pin Connections

SUM Port	1 (input)
Port 1	6 (output 1)
Port 2	5 (output 2)
Port 3	4 (output 3)
Ground	2,3

Outline Drawing



PCB Land Pattern



Outline Dimensions: Unit (mm)			
A	8.70	J	8.00
B	6.50	K	1.50
C	2.54		
D	1.30		
E	5.40		
F	6.50		
G	5.50		
H	4.30		
L	2.54		
M	2.00		
WT	3g		

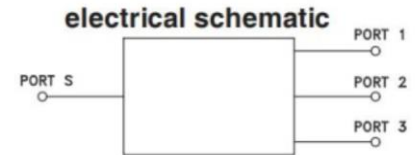
Features

- wideband, 10-300 MHz
- high isolation, 25 dB typ.
- good matching VSWR, 1.1 typ.
- excellent amplitude unbalance, 0.3 dB typ.

Application

- VHF/UHF
- Cellular
- Defense & federal communications

RoHS Compliant



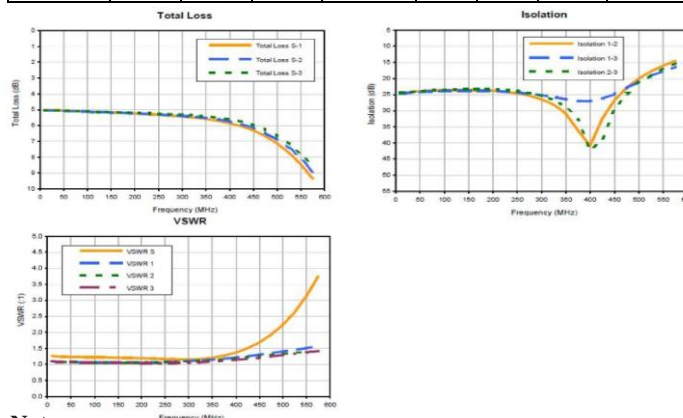
Electrical Specifications⁽¹⁾ at 25°C

Transformer Electrical Specifications						
Freq. Range (MHz)	Isolation(dB)		Insertion Loss(dB) Above 4.8 dB		Phase Unbalance (Degrees)	Amplitude Unbalance (dB)
	Min.	Max.	Min.	Max.	Max.	Max.
10-300	20	25	0.4	0.8	3	0.5

(1) Measured on Test Board PD-8765.

Typical performance Data (Test conditions: Input power=0dBm @ Temperature=+25°C)

Freq. (MHz)	Total Loss			Amp. Unbal. (dB)	Isolation(dB)			Phase Unbal. (deg.)	VSWRS			
	S-1	S-2	S-3		1-2	1-3	1-4		S	1	2	3
10.0	5.03	5.04	5.04	0.01	24	24	24	0.12	1.27	1.10	1.11	1.11
30.0	5.04	5.05	5.05	0.01	24	24	24	0.27	1.25	1.08	1.08	1.08
50.0	5.06	5.06	5.06	0.00	23	24	24	0.43	1.24	1.07	1.07	1.07
100.0	5.11	5.11	5.11	0.00	23	23	23	0.81	1.23	1.06	1.06	1.06
150.0	5.17	5.17	5.15	0.02	23	23	23	1.2	1.22	1.05	1.05	1.05
200.0	5.24	5.23	5.20	0.04	23	23	23	1.56	1.20	1.06	1.05	1.04
250.0	5.32	5.30	5.25	0.07	24	24	23	1.84	1.17	1.07	1.06	1.04
300.0	5.43	5.38	5.31	0.12	26	25	25	2.11	1.16	1.10	1.10	1.05



Notes

- The specifications are tested at 25°C±5°C, relative humidity 55~75%.
- Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.



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