上海馥莱电子有限公司 021-5291 8556 137-6444-1515 sales@fulai-elec.com www.fulai-elec.com

# **RESISTIVE POWER DIVIDER**

## **PD-0030SMG**

### **Features**

- DC to 30 GHz In-phase Power Splitting
- 1 dB Typical Insertion Loss
- Miniature Surface Mount Package
- Reflow Solderable
- Microwave Power Dividers & Couplers App Note



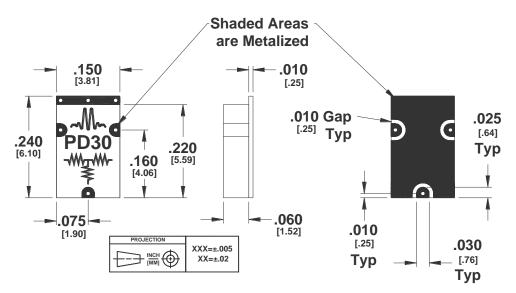
**Electrical Specifications** – Specifications guaranteed from -55 to +100 $^{\circ}$ C, measured in a 50 $\Omega$  system.

Parameter	Frequency Range	Min	Тур	Max
Nominal Power Splitting (dB)			6	
Excess Insertion Loss (dB) <sup>1</sup>			1	3
Nominal Phase Shift (Degrees)			0	
Amplitude Balance (dB)	DC to 30 GHz		±0.25	
Phase Balance (Degrees)			±3	
VSWR			1.6	
Input Power (Watt)				1

<sup>&</sup>lt;sup>1</sup>Excess Insertion Loss = (Common Port to Output Port Insertion Loss) – 6 dB.

Model Number	Description	
PD-0030SMG DC to 30 GHz Power Divider, Surface Mount, RoHS Comp		

Connectorized test fixtures available. Consult factory.



Substrate material is 10-mil thick Rogers 5880 or Taconic TLY-5, ½ Oz Electrodeposited Cu. Lead and Ground Plane Finish is 100-300 μ-inches 60/40 Pb/Sn Solder Plate over Cu. See <a href="http://www.markimicrowave.com/menus/appnotes/an-btsm-pcb.pdf">http://www.markimicrowave.com/menus/appnotes/an-btsm-pcb.pdf</a> for suggested PCB layout.

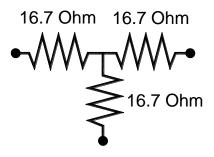
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## **Circuit Schematic**



# **Typical Performance**

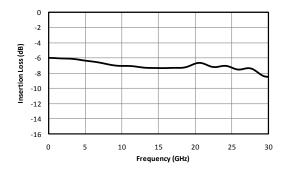


Fig. 1. Common port to output port insertion loss.

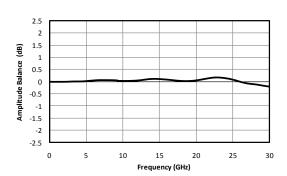


Fig. 3. Amplitude balance between output ports.

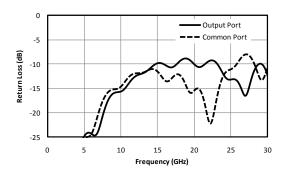


Fig. 2. Return loss for output and common ports.

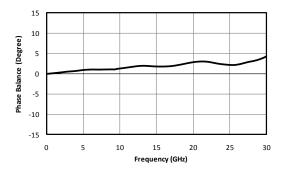


Fig. 4. Phase balance between output ports.

#### NOTE:

Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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