# SWP-62386304-12-E1-WPC

## Waveguide Power Divider, E Band, 4 Way, 62 to 86 GHz

#### **Description:**

**Model SWP-62386304-12-E1-WPC** is an E band, 4-way power divider with a typical insertion loss of 0.8 dB across the frequency range of 62 to 86 GHz. The divider offers 20 dB isolation and well-balanced ports, which can be used for in-phase power dividing or combining. This power divider comes as an in-line configuration with WR-12 waveguides and UG-387/U flanges at the input and all outputs.



#### Features:

- Low Insertion Loss
- High Isolation
- Inline Configuration

**Electrical Specifications:** 

#### **Applications:**

- Test Labs
- Test Instrumentation
- Sub-assemblies

#### Parameter Minimum Typical Maximum 62 GHz 86 GHz Frequency **Insertion Loss** 0.8 dB ± 0.4 dB Power Imbalance ± 0.5 dB Port Isolation, Adjacent Port 15 dB Port Isolation, Non-adjacent Port 25 dB Input/Output VSWR 1.2:1 1.5:1 **Specification Temperature** +25°C -40°C +85°C **Operating Temperature**

### **Mechanical Specifications:**

ltem	Specification
Input	WR-12 Waveguide with UG-387/U Flange
Output	WR-12 Waveguide with UG-387/U Flange
Dimensions	4.30" (W) x 1.30" (L) x 0.75" (H)
Port Separations	1.35" and 0.80"
Material	Aluminum
Finish	Gold Plated
Weight	3.6 Oz
Outline	WP-E4I



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Rev 1.0

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#### Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- All data are presented using a limited sample lot, actual data may vary unit to unit.
- All testing was performed under +25°C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

#### **Caution:**

• Any foreign objects in the waveguide will degrade performance and/or damage the device.



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