



WR-12 Directional Coupler

Description:

These standard 3 ports waveguide directional couplers are traditional multi-hole directional couplers. They feature low insertion loss, flat coupling level and high directivity crossing entire waveguide band in the frequency range of 60.0 to 90.0 GHz. Bi-directional (4 ports) and dual directional (4 ports) are available under different model number.



Features:

- Broadband operation
- Low insertion loss and high directivity
- Instrumentation grade

Applications:

- Test labs
- Instrumentations
- Sub-assemblies

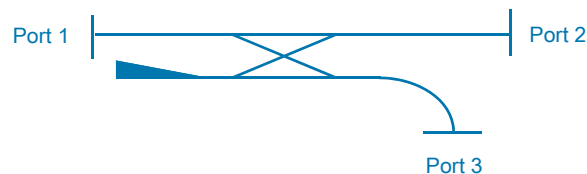
Device Specifications:

| Parameter | Minimum | Typical | Maximum |
|-----------------|----------|---------|----------|
| Frequency Range | 60.0 GHz | | 90.0 GHz |
| Insertion Loss | | | 1.5 dB |
| Directivity | | 30 dB | |
| VSWR | | | 1.1:1 |

*Note: The data above is for 10 dB and 20 dB coupling level. For other coupling level, contact the factory.

Ports Specifications:

| Port | Connector | Absolute Maximum Ratings |
|--------|--------------------------------------|--------------------------|
| Port 1 | WR-12 Waveguide with UG-387/U Flange | N/A |
| Port 2 | WR-12 Waveguide with UG-387/U Flange | N/A |
| Port 3 | WR-12 Waveguide with UG-387/U Flange | N/A |



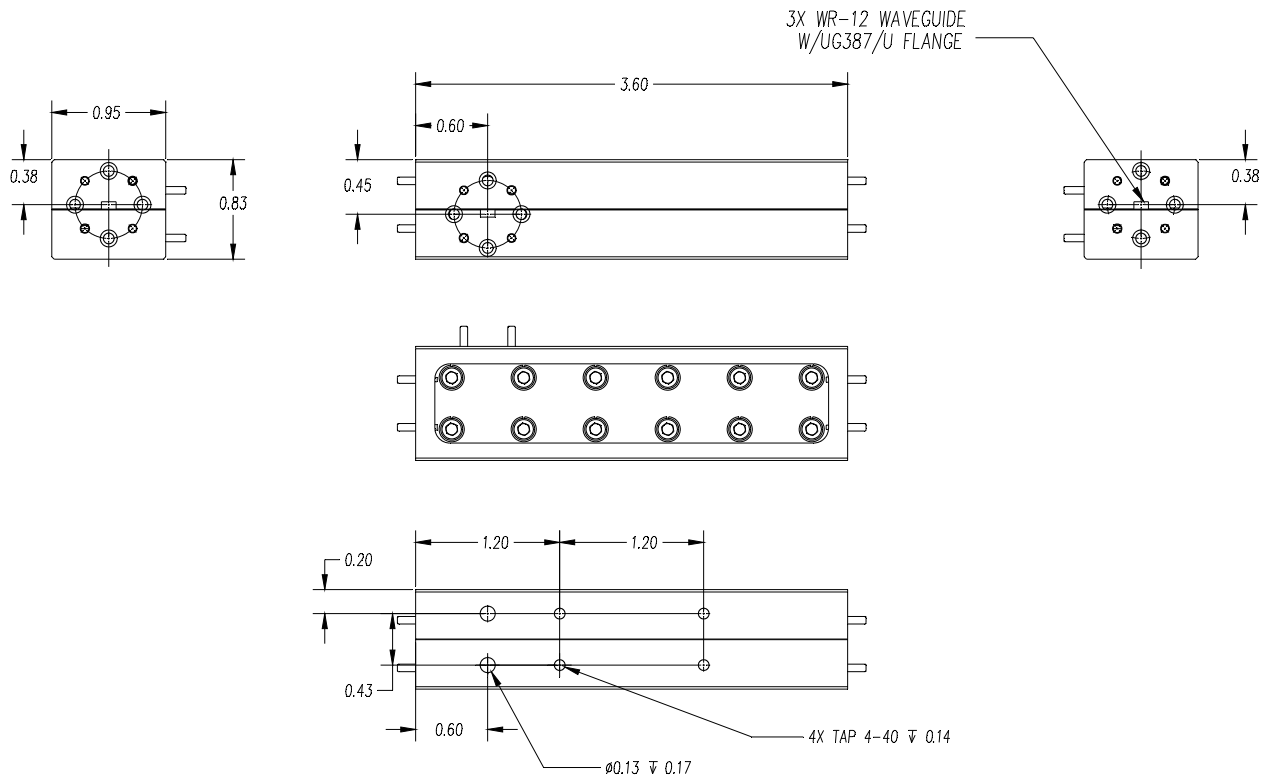


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Ordering Information:

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|--|
| Model Number: SWD-XX40H-12-SB |
| XX – Coupling Value (for example, SWD-0640H-12-SB means 6 dB coupling value) |

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



Note:

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.
- 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.