

# AT Microwave Straight Waveguide – WR-28 to WR-0.65

AT-SSW Standard Straight Waveguide · up to 1700 GHz · Product Datasheet



## KEY FEATURES – AT-SSW-2.0-WR10

Parameter	Min	Typ	Max
Passband Frequency	75 GHz	–	110 GHz
Return Loss	–15 dB	–20 dB	–
Length	–	2.0 inch	–
Waveguide Port	–	WR-10	–
Flange Type	–	UG-387/U-M	–

## TECHNICAL SPECIFICATIONS

- **Product Type**  
Standard Straight Waveguide (AT-SSW)
- **Portfolio Range**  
WR-28 to WR-0.65
- **Frequency Coverage**  
up to 1700 GHz
- **Example Model**  
AT-SSW-2.0-WR10 (Full W-Band)
- **Example Frequency**  
75 – 110 GHz
- **Return Loss**  
–15 dB min. / –20 dB typ.
- **Standard Lengths**  
1.0 / 1.25 / 2.0 / 4.0 inch
- **Custom Lengths**  
on request, up to 50 cm
- **Port 1 / Port 2**  
WR-10 UG-387/U-M, anti-cocking flange
- **Case Material**  
Copper
- **Finish**  
Gold Plated
- **Part Number Scheme**  
AT-SSW-XX-WRYY
- **Manufacturer**  
AT Microwave

## APPLICATIONS

<p><b>Laboratory Test</b> Defined low-loss waveguide sections for lab test benches and characterization</p>	<p><b>Radar Systems</b> Rugged interconnects for ground-based and airborne radar front-ends</p>	<p><b>High-Performance RF</b> Precision waveguide links where insertion loss and return loss are critical</p>
<p><b>mmWave &amp; Sub-THz</b> Coverage from Ka-band well into the sub-THz range up to 1700 GHz</p>	<p><b>Test and Measurement</b> Defined spacing elements in VNA and multiport measurement chains</p>	<p><b>Research &amp; Development</b> Flexible standard lengths for evolving experimental RF setups</p>