







**Waveguide to Coax Adapter**

This Waveguide to Coax Adapter AWC19F is manufactured with a right-angle design. RF SPIN is using only high-grade aluminum and design with the fewest components to ensure top quality and superb performance. This AWC19F has waveguide size WR-19 and flange. Using a great quality 1.85mm female connector that is 50 Ohm is a matter of course.

Waveguide to Coax Adapter has a frequency band from 40 GHz up to 60 GHz ensuring the extra performance of VSWR lower than 1.35 and low insertion loss below 0.4 dB.

**Features and Specifications**

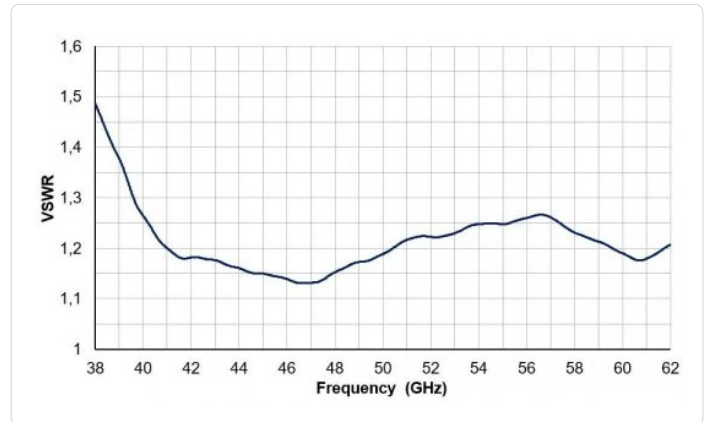
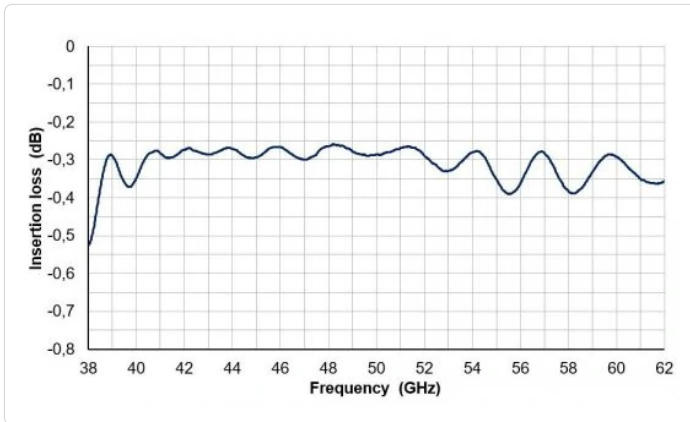
 <p><b>Technical Performance</b></p> <ul style="list-style-type: none"> <li>Low return loss</li> <li>Individual calibration</li> </ul>	 <p><b>Design and Surface Treatment</b></p> <ul style="list-style-type: none"> <li>Gold plated coating</li> </ul>	 <p><b>Manufacturing Technology</b></p> <ul style="list-style-type: none"> <li>Manufactured using a high grade aluminum alloy</li> <li>Extremely durable</li> <li>High quality 1.85mm type coaxial connector</li> </ul>	 <p><b>Product Packaging Includes</b></p> <ul style="list-style-type: none"> <li>Waveguide to Coax Adapter</li> </ul>
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**Product Parameters**

PRODUCT IDENTIFICATION		PHYSICAL SPECIFICATIONS	
Product Name	<b>AWC19F</b>	Width	<b>28.7 mm (1.130 in)</b>
Product Category	<b>Waveguide to Coax Adapter</b>	Height	<b>28.7 mm (1.130 in)</b>
ELECTRICAL SPECIFICATIONS		Depth	<b>27.8 mm (1.094 in)</b>
Frequency Range	<b>40 GHz – 60 GHz</b>	Weight	<b>0.047 kg (0.104 lb)</b>
VSWR (max.)	<b>1.35</b>	OPERATING CONDITIONS	
VSWR (avg.)	<b>1.2</b>	Rated Temperature Range	<b>0°C – +50°C</b>
Impedance	<b>50 Ohm</b>	Storage Temperature Range	<b>-20°C – +70°C</b>
Insertion Loss (max.)	<b>0.4 dB</b>		
Connector	<b>1.85mm</b>		
Waveguide Size	<b>WR19</b>		
Waveguide Flange	<b>UG-383/U-Mod</b>		
Power (CW / Peak)	<b>5 W / 10 W</b>		

## Parameters and Performance

### Typical parameters



## Packaging and Accessories

### What's in a box

- AWC19F Device
- Factory calibration certificate
- QR code accessing online portal
- Calibration test dataset (available online)

### Accessories

- Standard mounting flange



Factory calibration report

### Optional Accessories

- H-A60-W Pyramidal Horn Antenna

## Manufacturer Information

### About Datasheet

Product information available also online at  
<https://www.rfspin.com/product/awc19f/>

*Data and specifications subject to change without notice.*

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