

# Waveguide to Coaxial Adapter **AWR159SMAEL**

## WR159 to SMA Female, Rectangular Cover Flange, End Launch

Rev 1

### Electrical

<b>Frequency Range</b>	4.64-7.05 GHz
<b>VSWR</b>	1.2 max

### Configuration

<b>Waveguide Size</b>	IEC	R 58
	EIA	WR137
<b>Flange Type</b>	IEC	UDR58
	North America	M3922/52-016(UG1731/U) CPR159F
<b>Coax Connector</b>	SMA Female	
<b>Body Geometry</b>	End Launch	

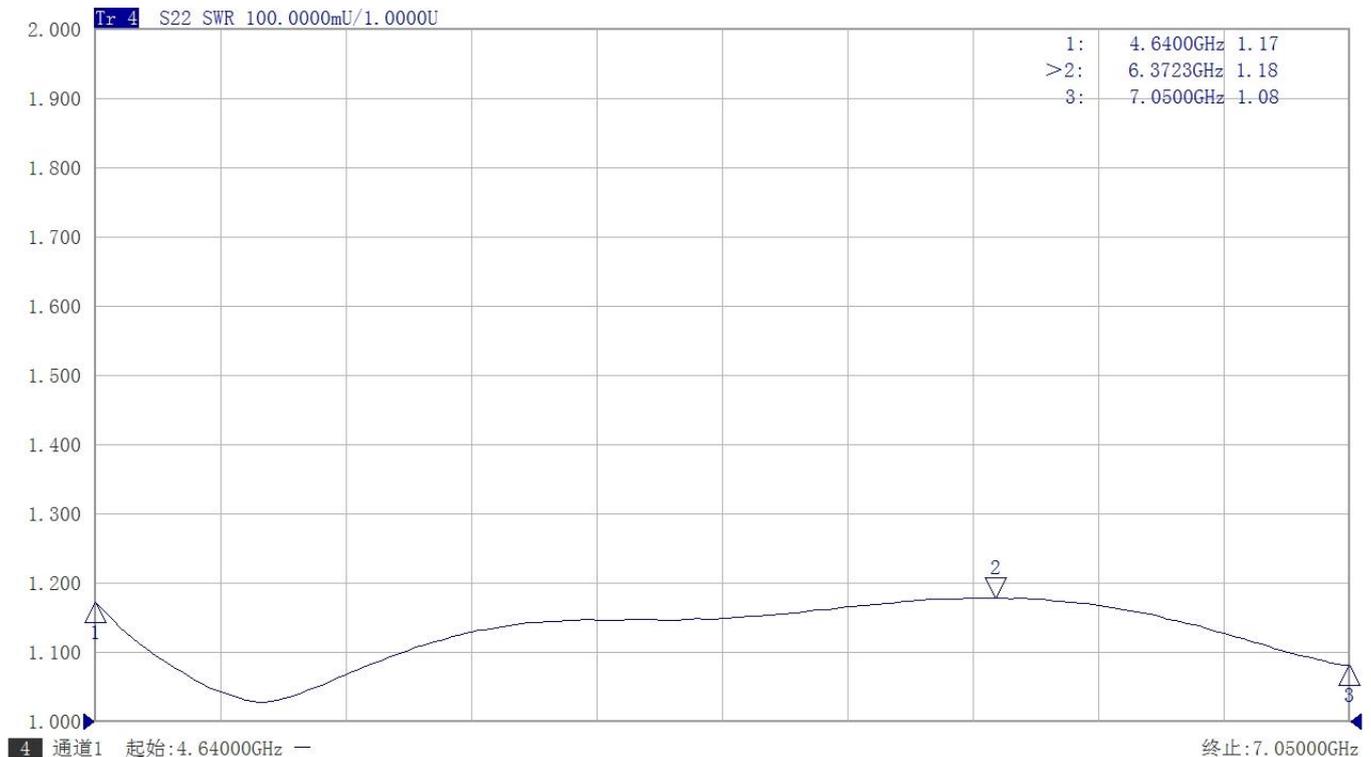
### Materials

<b>Waveguide Body</b>	Aluminum, black or grey painted
<b>Connector Body</b>	Passivated stainless steel
<b>Center Contact</b>	Gold plated beryllium copper

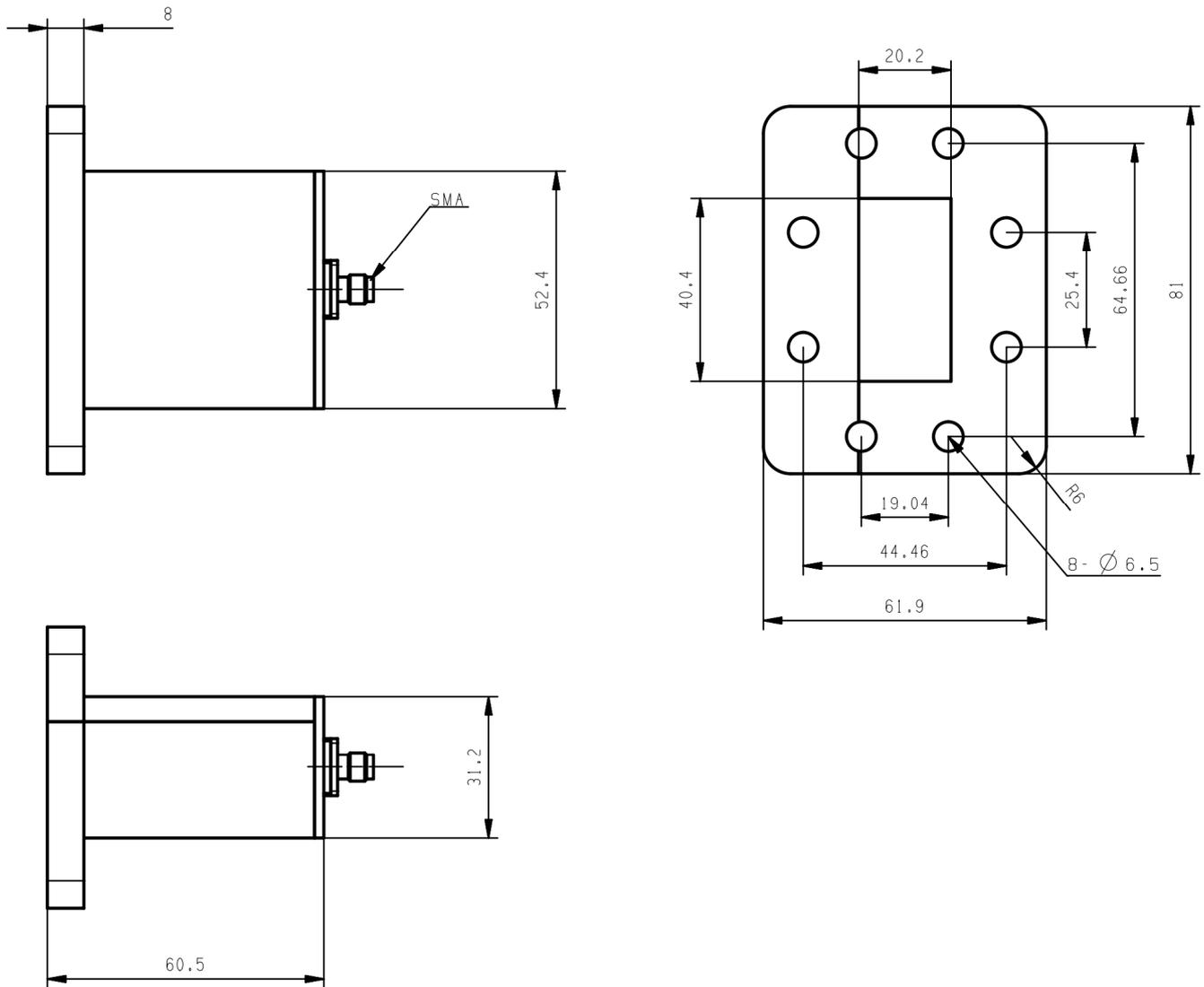
### Mechanical & Environmental

<b>Operating Temp</b>	-40°C to 70°C
<b>Connector Interface</b>	MIL-STD-348
<b>RoHS</b>	Compliant

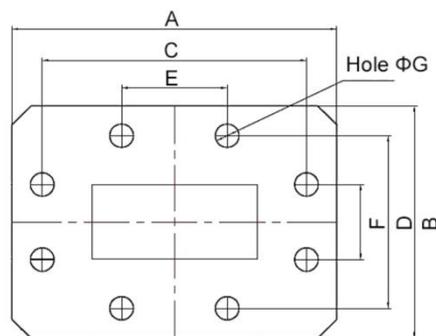
### Typical Test Data



## Dimensions(mm)



## Flange Comparison (Unit mm)



WG SIZE	CONFORMING STANDARD	A	B	C	D	E	F	G
WR159	RF ONE:AWR159SMAEL	81	61.9	64.66	44.46	25.4	19.04	6.5
	IEC60154:UDR58	81	61.9	64.66	44.46	25.4	19.04	6.35
	USA:MIL3922/52-016(UG1731/U)	81	61.98	64.66	44.44	25.4	19.04	6.53
	USA:CPR 159F	80.95	61.91	64.66	44.46	25.4	19.04	6.53

\* The purpose of this size comparison is to provide a quick overview of different flange standards.

\* Great care has been given nevertheless there might be a few mistakes.

\* Please check the flange compatibility before ordering. Customized flanges are available.