

## WR-159 to SMA Female Waveguide to Coax Adapter UDR58 with 5.38 GHz to 8.17 GHz in Aluminum

The FMWCA1085 is a right angle waveguide to coaxial adapter operating at a frequency range of 5.38 GHz to 8.17 GHz. This adapter offers a WR-159 waveguide interface size coupled with a precision tolerance UDR58 flange. The FMWCA1085 is constructed of aluminum and painted gray to ensure durability. The coaxial connector offered by this adapter uses an SMA Female connector.

### Configuration

Waveguide Size	WR-159
Flange	UDR58
RF Connector	SMA Female
Body Geometry	Right Angle

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	5.38		8.17	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power (CW)			100	Watts

### Mechanical Specifications

<b>Size</b>	
Length	1.91 in [48.51 mm]
Width	3.19 in [81.03 mm]
Height	2.43 in [61.72 mm]

<b>RF Connector</b>	
Connector Type	SMA Female

<b>Waveguide Interface</b>	
Waveguide Type	WR-159
Flange Type	UDR58
Body Material and Plating	Aluminum

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise



### Features:

- 5.38 GHz to 8.17 GHz Frequency Range
- WR-159 Waveguide Interface
- UDR58 Flange
- SMA Female RF Interface
- Comprehensive waveguide offering also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

### Applications:

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

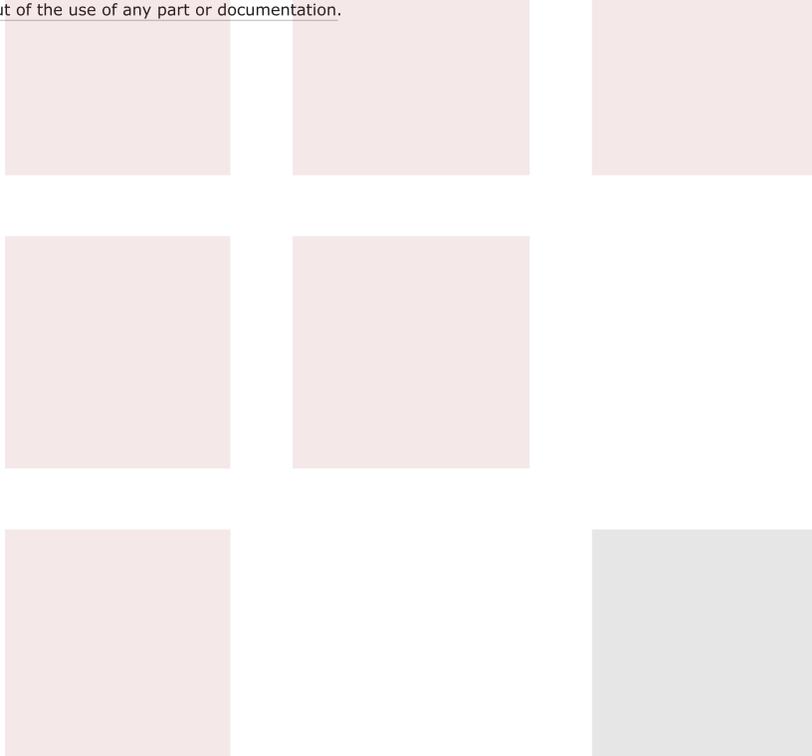
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WR-159 to SMA Female Waveguide to Coax Adapter UDR58 with 5.38 GHz to 8.17 GHz in Aluminum from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

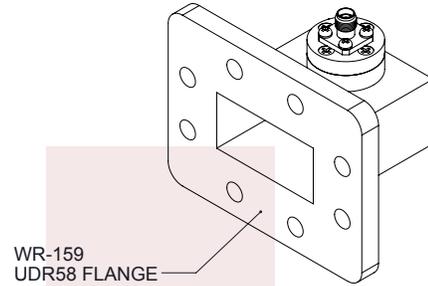
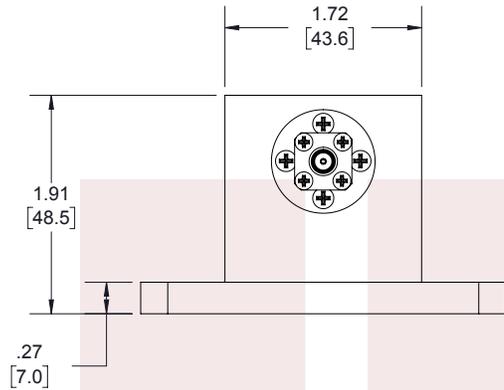
For additional information on this product, please click the following link: [WR-159 to SMA Female Waveguide to Coax Adapter UDR58 with 5.38 GHz to 8.17 GHz in Aluminum FMWCA1085](#)

URL: <https://www.fairviewmicrowave.com/wr159-sma-female-waveguide-coax-adapter-udr58-fmwca1085-p.aspx>

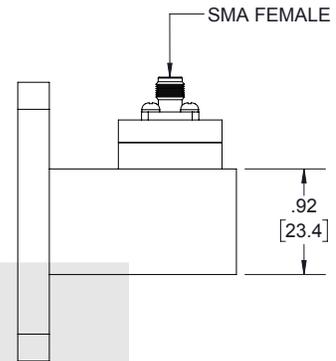
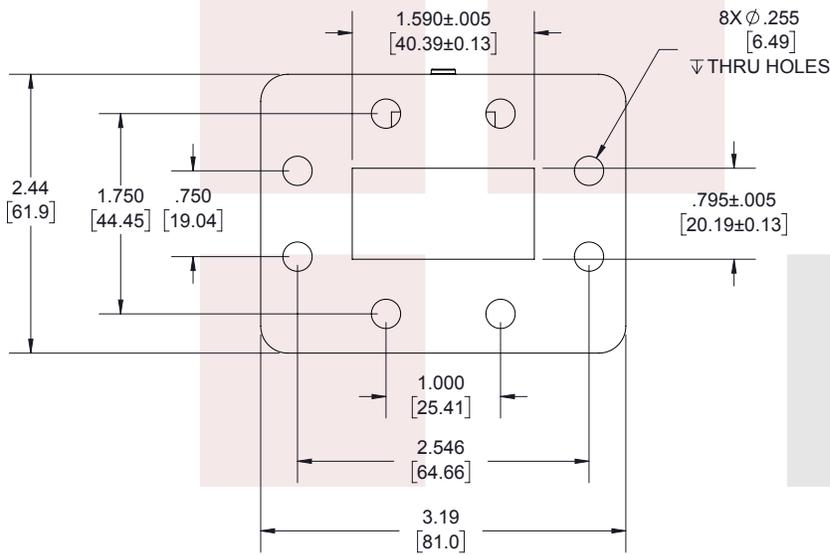
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/30/2020	SPONG



WR-159  
UDR58 FLANGE



SMA FEMALE

LABEL:

FAIRVIEW MICROWAVE  
FMWCA1085  
D/C: YYWW

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TITLE

WR-159 to SMA Female Waveguide to Coax Adapter  
UDR58 with 5.38 GHz to 8.17 GHz in Aluminum

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE

N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FMWCA1085	REV A
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T-Rev.D