

WR-42 to 2.92mm Female End Launch Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 26.5 GHz Frequency Range For K Band

The 42AEL86 is a waveguide to coaxial adapter with a frequency range of 18 to 26.5 GHz, operating in the K band. This adapter offers a precision tolerance square cover flange and a WR-42 waveguide interface size. 42AEL86 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a 2.92mm geometry endorsed by International Electrotechnical Commission (IEC). The 2.92mm female connector mates with commercially available SMA and 3.5mm connectors.



Configuration

Waveguide Size	WR-42
Flange	Square Cover
RF Connector	2.92mm Female
Impedance	50 Ohms
Body Geometry	End Launch

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
VSWR			1.35:1	

Mechanical Specifications

Size	
Length	1.15 in [29.21 mm]
Width	0.88 in [22.35 mm]
Height	0.88 in [22.35 mm]
Weight	0.02513 lbs [11.4 g]
RF Connector	
Connector Type	2.92mm Female
Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Passivated Stainless Steel
Waveguide Interface	
Waveguide Type	WR-42
Flange Type	Square Cover
Body Material and Plating	Aluminum

Environmental Specifications

Temperature	
Operating Range	-55 to +120 deg C

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

Plotted and Other Data

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

Features:

- K Band, 18 to 26.5 GHz Frequency Range
- WR-42 Waveguide Interface with Square Cover Flange
- 2.92mm Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

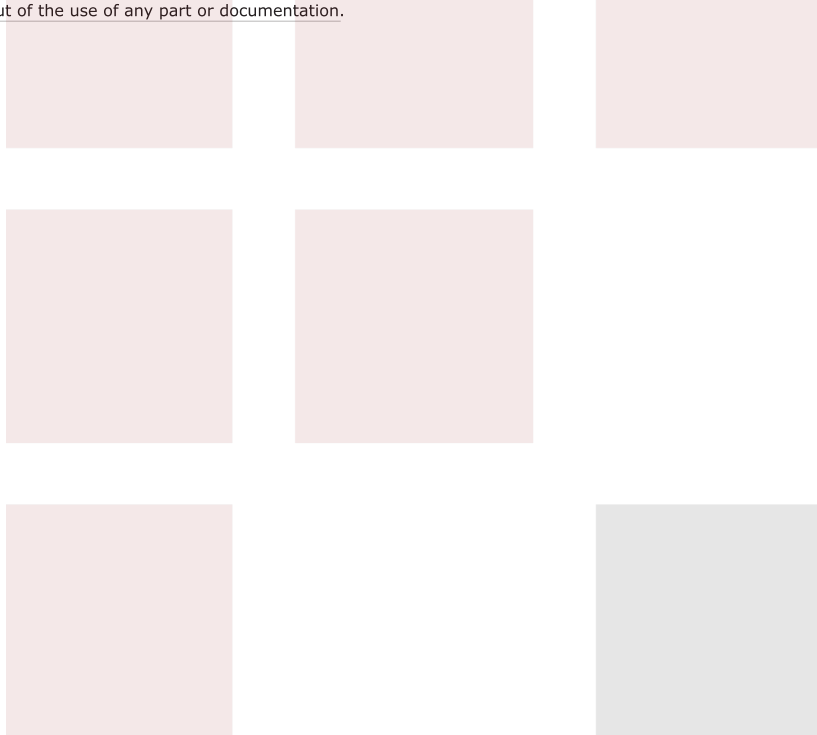
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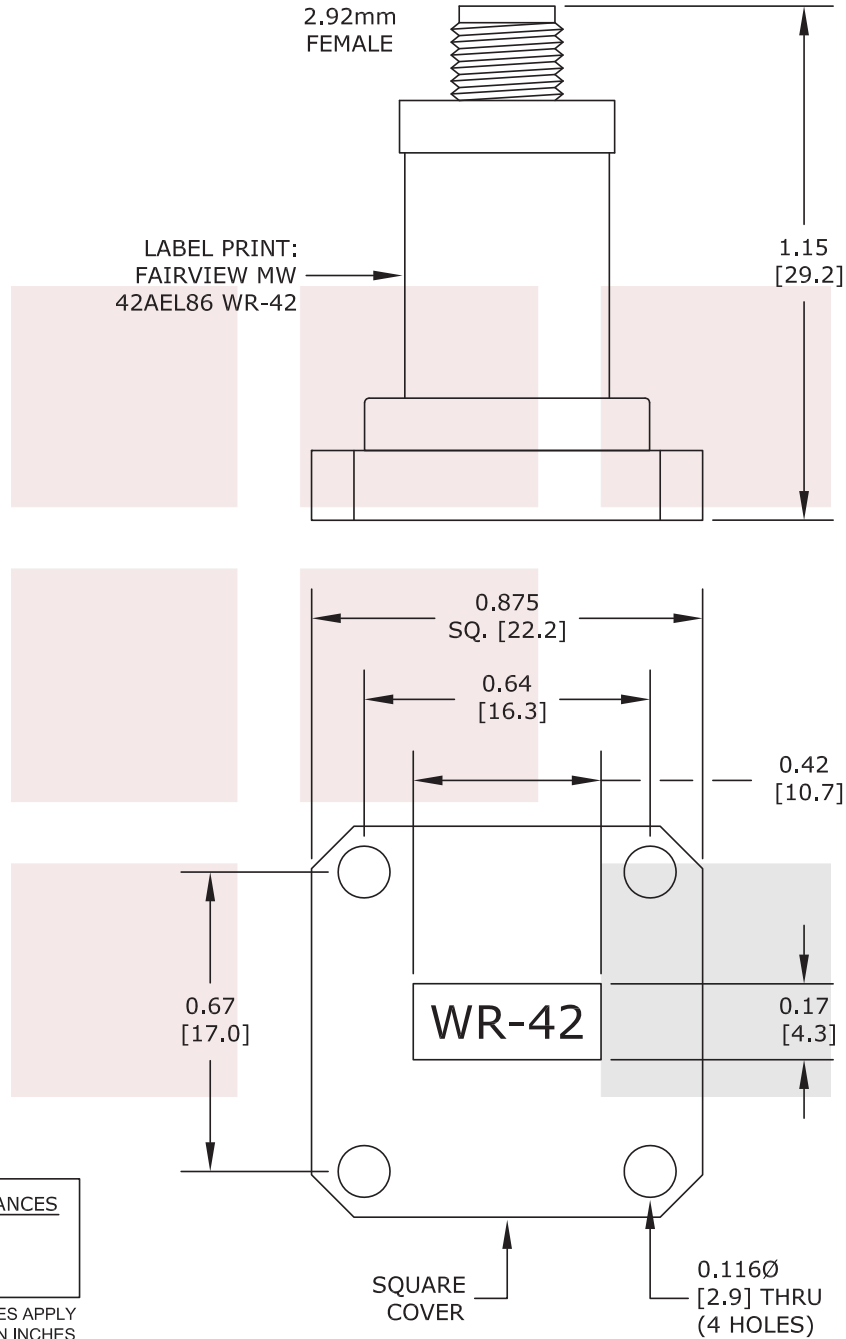
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For additional information on this product, please click the following link: [WR-42 to 2.92mm Female End Launch Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 26.5 GHz Frequency Range For K Band 42AEL86](#)

URL: <https://www.fairviewmicrowave.com/straight-wr-42-2.92mm-female-connector-waveguide-coax-adapter-18-26.5-ghz-42ael86-p.aspx>

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

TITLE
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DWG NO	42AEL86	CAGE CODE	3FKR5		
CAD FILE	072616	SHEET	SCALE	N/A	SIZE A 2233