

**WRD180C24 to 2.92mm Female Waveguide to Coax  
 Adapter Square Cover Flange With 18 GHz to 40 GHz  
 Frequency Range For K-Ka Band**

The SMW1840DRK is a waveguide to coaxial adapter with a frequency range of 18 to 40 GHz, operating in the K-Ka band. This adapter offers a precision tolerance square cover flange and a WRD180C24 waveguide interface size. SMW1840DRK is constructed of copper 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. The package is REACH and RoHS compliant.

**Configuration**

Waveguide Size	WRD180C24
Flange	Square Cover
RF Connector	2.92mm Female
Impedance	50 Ohms
Body Geometry	Right Angle

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	18		40	GHz
VSWR			1.65:1	
Input Power (CW)			10	Watts

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	18 to 32	32 to 40				GHz
VSWR, Max	1.5:1	1.65:1				

**Mechanical Specifications**

**Size**

Length	0.88 in [22.35 mm]
Width	0.88 in [22.35 mm]
Height	1.02 in [25.91 mm]
Weight	0.10009 lbs [45.4 g]

**RF Connector**

Connector Type	2.92mm Female
Specification	30µ in. min.
Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Passivated Stainless Steel

**Waveguide Interface**

Waveguide Type	WRD180C24
Flange Type	Square Cover
Body Material and Plating	Copper

**Environmental Specifications**

**Temperature**

Operating Range	-55 to +120 deg C
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**Features:**

- K-Ka Band, 18 to 40 GHz Frequency Range
- WRD180C24 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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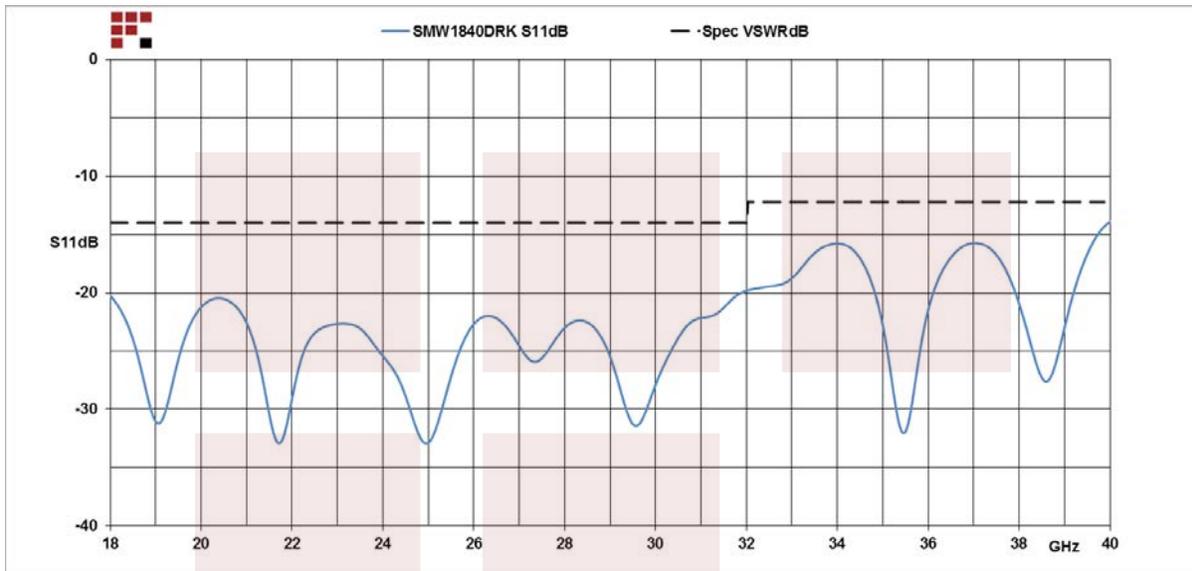
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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

**Typical Performance Data**

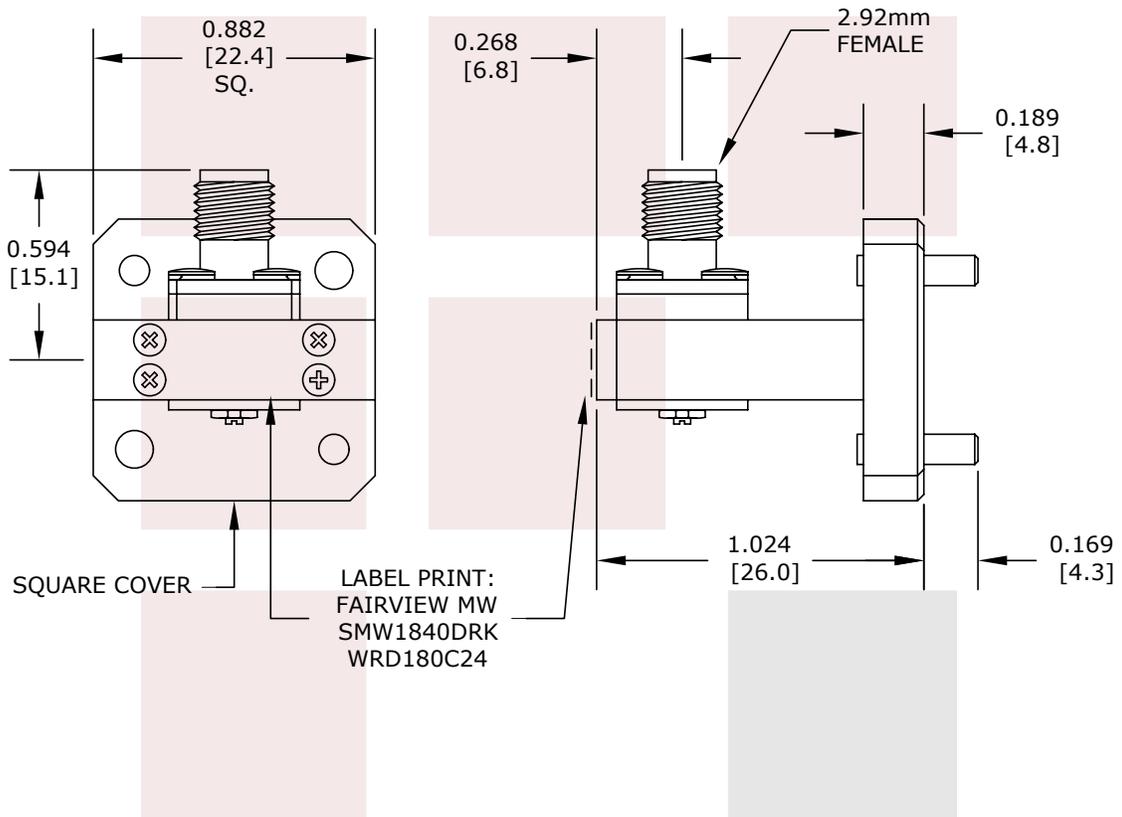


WRD180C24 to 2.92mm Female Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 40 GHz Frequency Range For K-Ka Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WRD180C24 to 2.92mm Female Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 40 GHz Frequency Range For K-Ka Band SMW1840DRK](#)

URL: <https://www.fairviewmicrowave.com/wrc180d24-2.92mm-female-connector-waveguide-coax-adapter-18-40-ghz-smw1840drk-p.aspx>

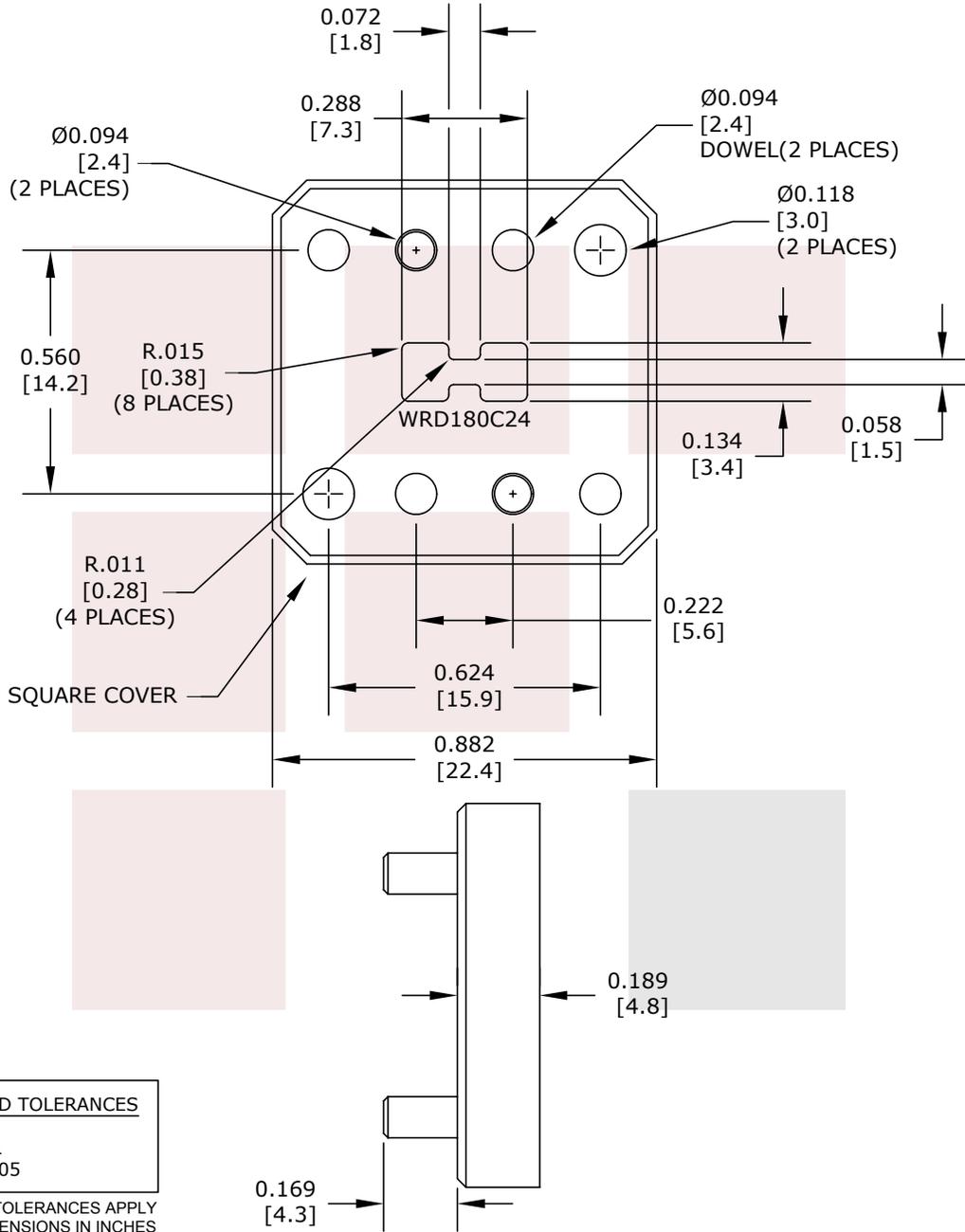
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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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TITLE WRD180C24 to 2.92mm Female Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 40 GHz Frequency Range For K-Ka Band		DWG NO <b>SMW1840DRK</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	041316	SHEET	SCALE	N/A	SIZE A 3045



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