

## WRD180C24 to 2.92mm Female Waveguide to Coax Adapter Square Cover with 18 GHz to 40 GHz K-Ka Band in Copper, Gold

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	WRD-180
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	
Insertion Loss			0.5	dB
Input Power (CW)			10	Watts

### Mechanical Specifications

<b>Size</b>	
Length	0.88 in [22.35 mm]
Width	0.88 in [22.35 mm]
Height	1.02 in [25.91 mm]
Weight	0.102 lbs [46.27 g]
<b>RF Connector</b>	
Connector Type	2.92mm Female
Specification	30μ in. min.
Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Brass
<b>Waveguide Interface</b>	
Waveguide Type	WRD-180
Flange Type	Square Cover
Body Material and Plating	Brass, Gold

### Environmental Specifications

<b>Temperature</b>	
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

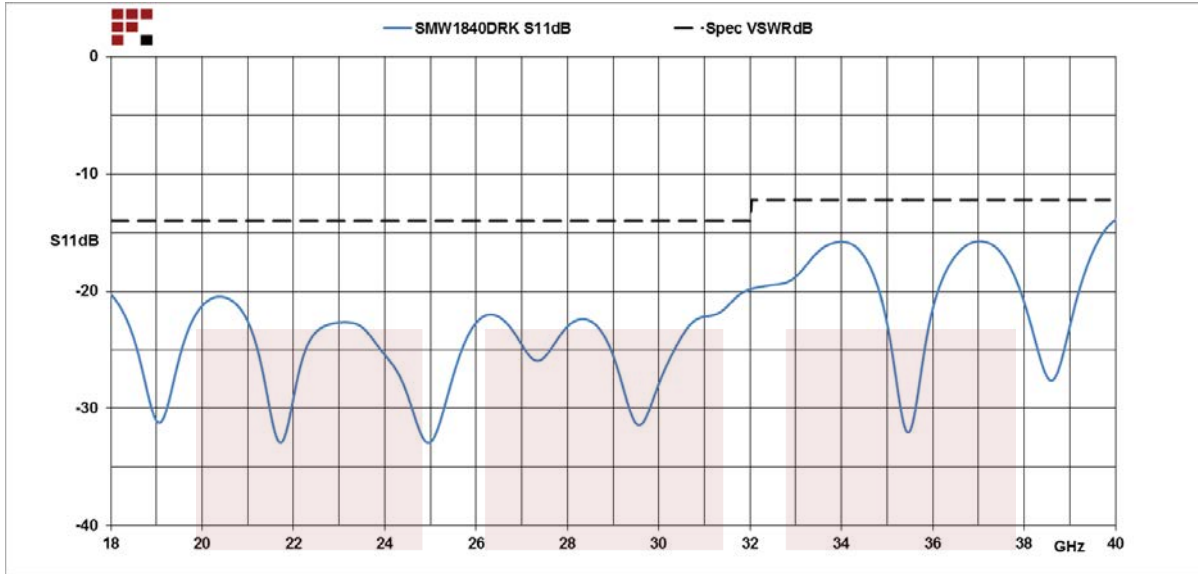


### Features:

- K-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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**Typical Performance Data**



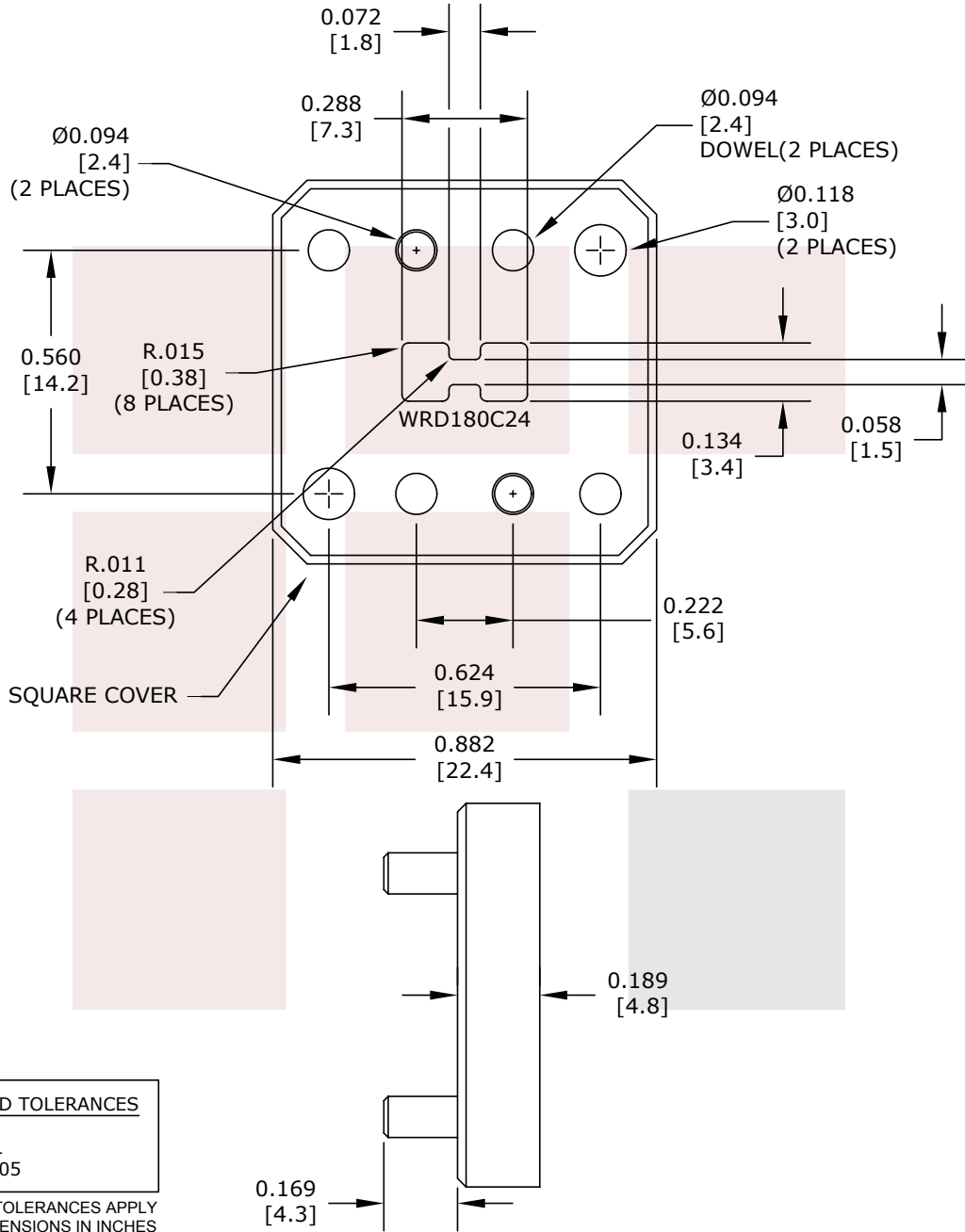
WRD180C24 to 2.92mm Female Waveguide to Coax Adapter Square Cover with 18 GHz to 40 GHz K-Ka Band in Copper, Gold from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville,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

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

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

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TITLE WRD180C24 to 2.92mm Female Waveguide to Coax Adapter Square Cover with 18 GHz to 40 GHz K-Ka Band in Copper, Gold		SMW1840DRK		3FKR5	
		CAD FILE	041316	SHEET	SCALE
		SIZE		3045	