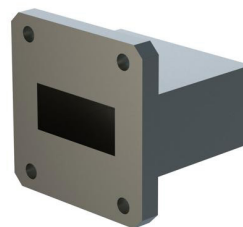


WR-112 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz



FMWCA9865

Features

- 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface
- Square Type Flange
- SMA Female RF Interface
- End Launch

Applications

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

Description

The FMWCA9865 is a waveguide to coaxial adapter operating in the H band with a 7.05 to 10 GHz frequency range. This adapter offers a WR-112 waveguide interface size coupled with a precision tolerance Square Type flange. The FMWCA9865 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA Female connector mates with commercially available 2.92mm and 3.5mm connectors.

Configuration

Waveguide Size	WR-112
Flange	Square Type
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	End Launch

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
VSWR			1.4:1	

Mechanical Specifications

Size

Length	1.94 in [49.28 mm]
Width	1.88 in [47.75 mm]
Height	1.88 in [47.75 mm]
Weight	0.3 lbs [136.08 g]

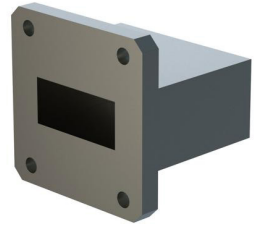
RF Connector

Connector Type	SMA Female
Body Material and Plating	Passivated Stainless Steel

Waveguide Interface

Waveguide Type	WR-112
Flange Type	Square Type
Body Material and Plating	Aluminum

WR-112 Square Type Flange to End Launch
SMA Female Waveguide to Coax Adapter
Operating from 7.05 GHz to 10 GHz



FMWCA9865

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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

WR-112 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz 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-112 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz FMWCA9865](#)

URL: <https://www.fairviewmicrowave.com/wr112-sma-female-end-launch-waveguide-coax-adapter-square-fmwca9865-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMWCA9865 CAD Drawing

WR-112 Square Type Flange to End Launch SMA Female Waveguide
to Coax Adapter Operating from 7.05 GHz to 10 GHz

