

# SMW90TF006-12 DATA SHEET

# WR-90 Twistable Flexible Waveguide Using CPR-90G Flange With a 8.2 GHz to 12.4 GHz Frequency Range

The SMW90TF006-12 is one of Fairview Microwave's flexible, twistable sections which operates in the 8.2 to 12.4 GHz range. It can be twisted and/or bent in both the E and H planes without impairing VSWR or attenuation because of its silver coated helically wound brass body construction. The twistable section is covered in a neoprene jacket which allows the section to be pressurized as well as protecting the waveguide's integrity.

### **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.07:1		
Insertion Loss		0.15		dB

## **Mechanical Specifications**

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Radius, One Time					
Radius, Repeated					
Radius, One Time					
Radius, Repeated					
on, One Time					
on, Repeated					
essure					

WR-90 Twistable 12 in [304.8 mm] 2.5 in [63.5 mm] 10 in [254 mm] 5 in [127 mm] 20 in [508 mm] 96 degrees/ft 24 degrees/ft 45 psig

Description	Flange 1	Waveguide	Flange 2
Туре	CPR-90G	WR-90	CPR-90G
Designation	None		None
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

# **Compliance Certifications** (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

REACH Compliant 12/17/2015

#### **Plotted and Other Data**

Notes:

· Notes, Plotted Data



### Features:

- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 8.2 GHz to 12.4 GHz Range
- Brass flanges with a silver plated brass body

# **Applications:**

- Test Benches
- · Microwave Radio
- Pressurized waveguide systems
- · Provides vibration isolation
- Easily connects misaligned sections.
- Relieves mechanical stresses caused by thermal expansion/contraction.

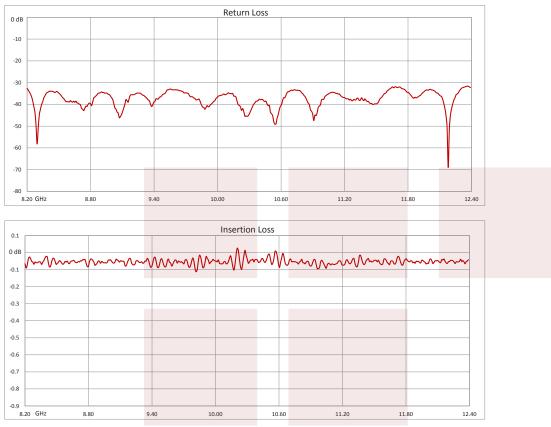
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### **Typical Performance Data**



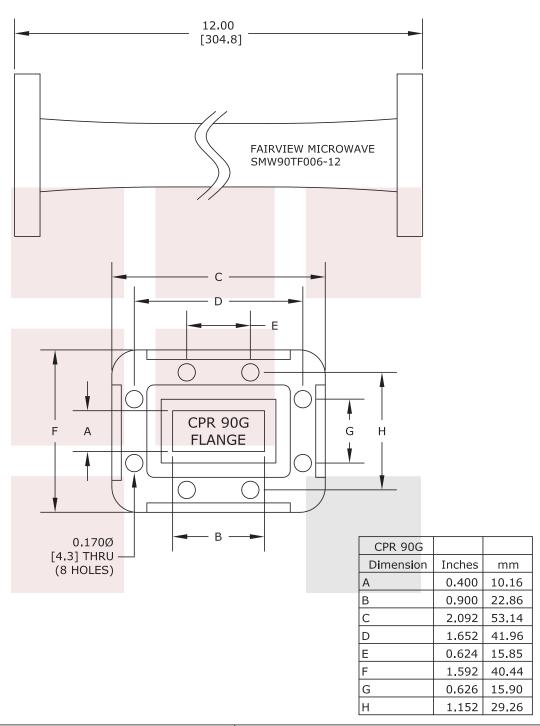
WR-90 Twistable Flexible Waveguide Using CPR-90G Flange With a 8.2 GHz to 12.4 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-90 Twistable Flexible Waveguide Using CPR-90G Flange With a 8.2 GHz to 12.4 GHz Frequency Range SMW90TF006-12

URL: https://www.fairviewmicrowave.com/wr-90-twistable-flexible-waveguide-cpr-90g-8.2-12.4-ghz-smw90tf006-12-p. aspx

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WR-90 Twistable Flexible Waveguide Using CPR-90G Flange With a 8.2 GHz to 12.4 GHz Frequency Range	SMW90TF006-12			CAGE CODE 3FKR5		
	CAD FILE 1	100515	SHEET	SCAL	E N/A	SIZE A