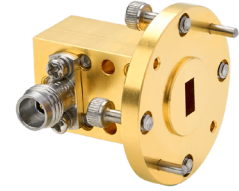


THE BIG DEAL

- Q-band frequency range, 33 to 50 GHz
- Excellent VSWR, 1.2:1 typ.
- Low insertion loss, 0.25dB typ.
- Compact design
- UG383/U waveguide cover flange
- 2.4mm-F connector

APPLICATIONS

- Instrumentation and Lab use
- Rapid Prototyping
- Waveguide Systems
- Radars
- Communications
- Industrial, Scientific and Medical
- 5G Cellular Mobile



Generic photo used for illustration purposes only

Model No.	WR22-VFR+
Case Style	UW3147-1
Connector 1	2.4mm-F
Connector 2	WR22 UG383/U Cover Flange

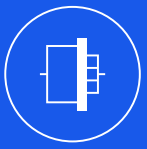
+RoHS Compliant
 The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

PRODUCT OVERVIEW

Mini-Circuits' WR22-VFR+ is a waveguide to coax adapter operating from 33 to 50 GHz. This product features a WR22 waveguide interface with a precision standard UG383/U-Flange to 2.4 mm-F coaxial connector. The WR22-VFR+ is machined from aluminum alloy 6061-T6 and gold-plated to ensure repeatable RF performance. This adapter has applications in laboratories, Q-Band communications, Radars and more.

KEY FEATURES

Feature	Advantages
Wideband, 33 to 50 GHz	Full operating frequency range of WR22 waveguide
Low insertion loss/excellent VSWR	Key for critical coax to waveguide transition requirements



ELECTRICAL SPECIFICATIONS AT 25°C

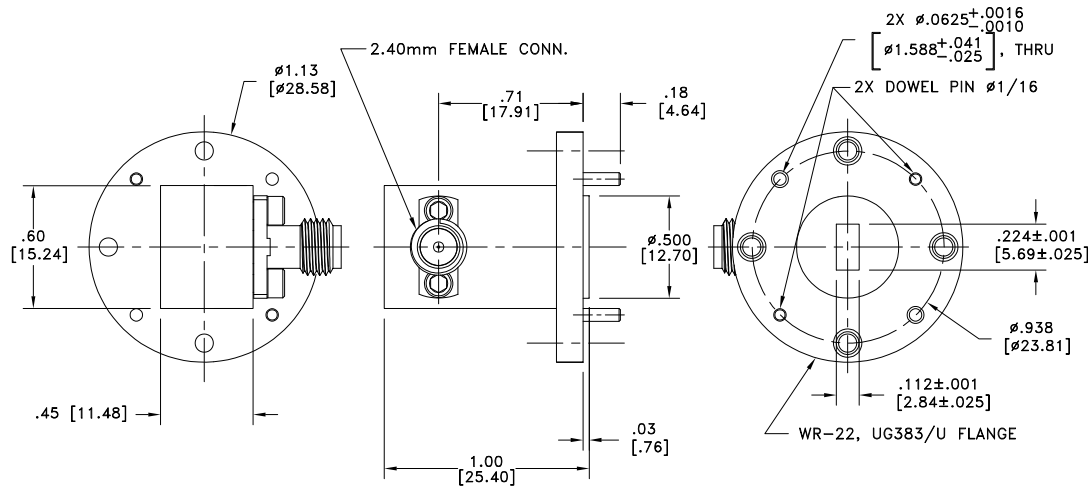
Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		33		50	GHz
Insertion Loss	33 - 50		0.25	0.50	dB
	33 - 36		0.25		
	39 - 45		0.25		
	47 - 50		0.3		
VSWR	33 - 50		1.2	1.45	:1
	33 - 36		1.3		
	39 - 45		1.15		
	47 - 50		1.2		

MAXIMUM RATINGS

Parameter	Ratings
Operating Case Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

Permanent damage may occur if any of these limits are exceeded.

OUTLINE DRAWING



Weight: 25 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl. ±.03; 3 Pl. ±.015

Notes:

1. Case material: Aluminum alloy.
2. Case Finish: Gold plated.