STF-22-91

Q-Band, Faraday Isolator, 90° Twist

Electrical Specifications:

Parameter

Specification Temperature

Mechanical Specifications:

Operating Temperature

Frequency Range

Insertion Loss

Return Loss

Power Handling

Isolation

STF-22-91 is a WR-22 full band Faraday isolator that operates from 33 to 50 GHz. The Faraday isolator is constructed with a longitudinal,

magnetized ferrite rod that causes a Faraday rotation of the incoming RF

typical insertion loss. The input and output ports are WR-22 waveguides

Minimum

33 GHz

-40 °C

signal. The Faraday isolator offers 30 dB typical isolation and 1.2 dB

with UG-383/U anti-cocking flanges and feature a 90° twist.

1/2

Typical

1.2 dB

30 dB

16 dB

1.5 W (CW)

+25 °C

Maximum

50 GHz

2.0 W (CW)

+85 °C

Item	Specification
RF Ports	WR-22 Waveguide with UG-383/U Anti- Cocking Flange
Waveguide Flange Material	Brass
Waveguide Flange Finish	Gold Plated
Cover Material	Aluminum
Cover Finish	Black Anodized
Weight	5.0 Oz
Outline	TF-SQ-A-9

EAR99

ECCN

FEATURES

- Full Waveguide Band Operation •
- Moderate Insertion Loss
- **High Isolation**
- Instrumentation Grade

APPLICATIONS

- Test Lab •
- Instrumentations
- Subassemblies

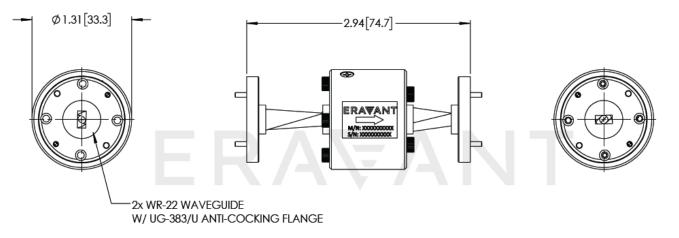
SUPPLEMENTAL DETAILS



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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

• Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings will damage the device.
- The device is sensitive to magnetic fields. Always keep magnet fields 6 inches away.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

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