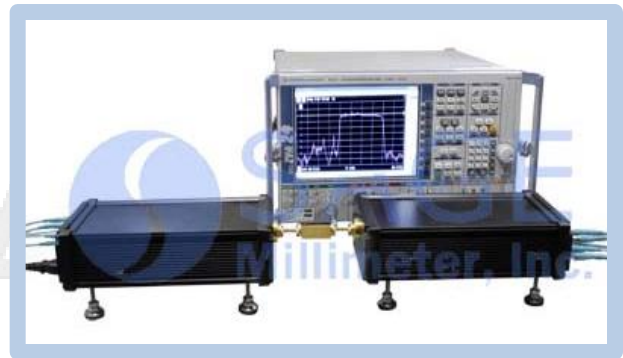


## E Band VNA Frequency Extender

### Description:

**Model STN-SF812-00-S1-V** is an E Band vector network analyzer (VNA) frequency extender designed to achieve full 2-port, S-parameter testing at 60 to 90 GHz. It is compatible with modern vector network analyzers such as the Rohde & Schwarz ZVA Series and the Keysight PNA-X Series.

The frequency extenders can achieve a dynamic range of 80 dB and are great for testing many E band devices including passive and active devices. It takes a pair to complete the full S parameter test set.



### Features:

- Full Band Coverage
- Dynamic Range of 80 dB
- AC Power Input: 100 to 240 VAC

### Applications:

- S-Parameter Characterization
- Test Lab Instrumentation

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Operating Frequency	60 GHz		90 GHz
Test Port Output Power		0 dBm	
Dynamic Range		80 dB	
Test Port Match		18 dB	
Directivity		38 dB	
RF Source Input Frequency	10 GHz		15 GHz
RF Source Input Power	+0 dBm		+6 dBm
LO Source Input Frequency	7.5 GHz		11.25 GHz
LO Source Input Power	+4 dBm		+10 dBm
IF Frequency Range	10 MHz		1000 MHz

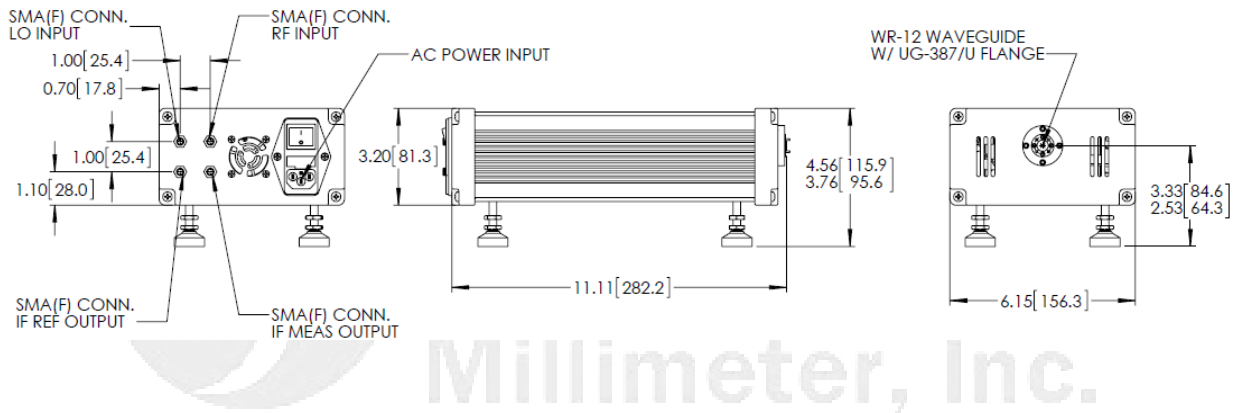
### Mechanical Specifications:

Item	Specification
RF Test Port	WR-12 Waveguide with UG387/U Flange
RF and LO Source Input Ports	SMA(F), SMA(F)
IF Output Ports	SMA(F)
AC Power Receptacle	IEC 320-C14
Size	11.11" (L) x 6.15" (W) x 4.56" Max (H)
Finishing	Black Anodized
Weight	8 Lbs Each
Outline	TN-EV

**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches)

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505  
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

## E Band VNA Frequency Extender



**Note:**

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.
- Two identical units are required to complete the full S parameter test set.

**Caution:**

- Exceeding absolute maximum ratings will damage the device.
- Any foreign objects in the waveguide will damage the device.

