

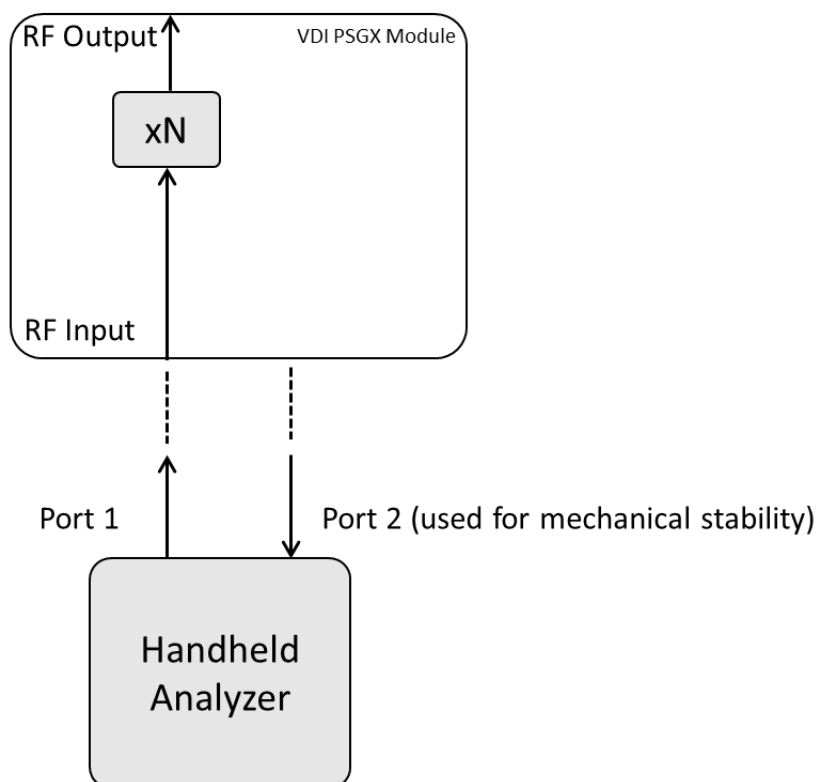
PSGX (Portable Signal Generator Extension) Module Datasheet

PSGX Module

Virginia Diodes' (VDI) Portable Signal Generator Extension (PSGX) Modules are used to generate high frequency signals using a / portable analyzer (e.g. Keysight FieldFox) in the frequency range from 50 GHz through 170 GHz, in frequency bands from WR-15 (50-75 GHz) to WR-6.5 (110-170 GHz). Higher frequency PSGX modules may be available upon request. An external battery or power supply may be needed to operate higher frequency PSGX modules.

Direct Connect to Keysight FieldFox Analyzers

The VDI PSGX Module is designed to connect directly to the RF Ports on the Keysight FieldFox Analyzers. An additional coax port is included for mechanical stability. The additional connector on the PSGX module can be adjusted laterally to be compatible with port spacings of all Keysight FieldFox analyzers.



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PSGX Specifications

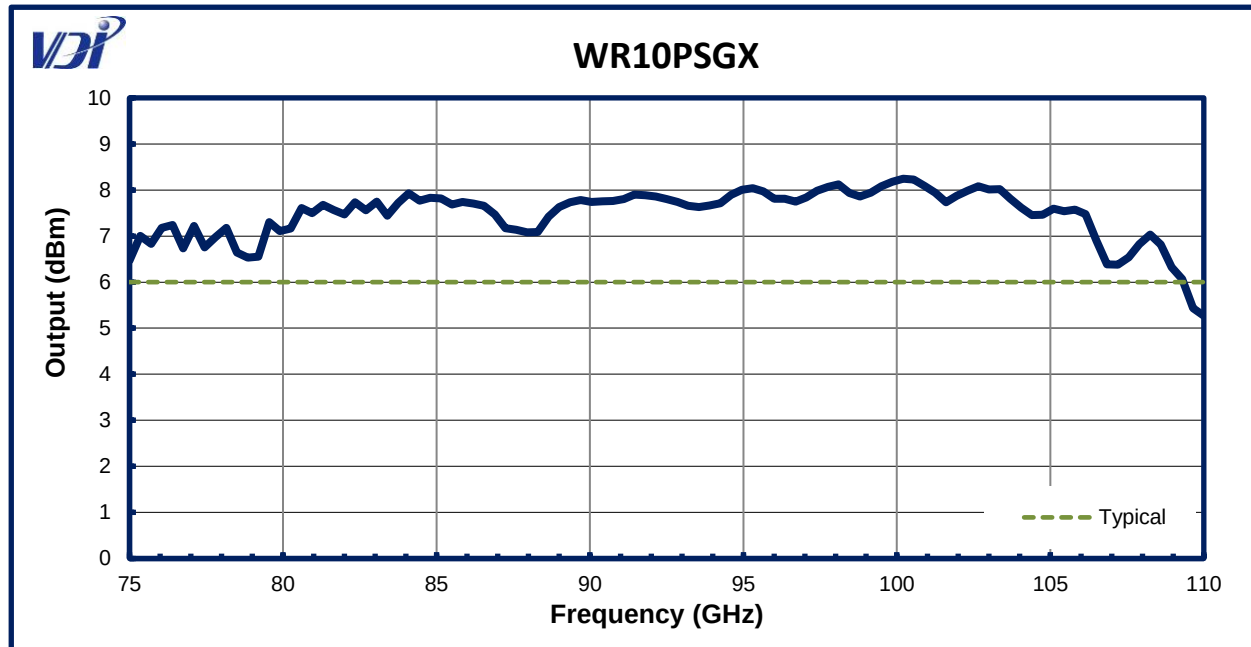
General Specifications for VDI PSGX Modules			
Description		Specification	Connector
RF Input	Typical / Damage	0 dBm $\pm$ 3dB / 8 dBm	2.92mm (f)
RF Output Test Port	VDI Precision Flange	WR15 to WR6.5	UG-387/U-M
DC Bias Port*	--	+9V to +11V	LEMO 00
Maximum Weight	--	1 lbs (0.45 kg) - estimated	--
Enclosure Dimensions	Typical (Length x Width x Height)	3.00" x 4.50" x 1.50"	--
Operating Temperature	Typical / Recommended	25°C / 20-30°C	--
Maximum Rated Humidity	At 30°C	~75%	--

*Includes QTY 2 - 12-inch LEMO 00 to SMB cable to connect to SMB port on Keysight FieldFox. Only one bias cable is needed for operation. A spare / replacement cable is included.

VDI PSGX Module Specifications					
Description	WR15PSGX	WR12PSGX	WR10PSGX	WR8.0PSGX	WR6.5PSGX
RF Frequency Band (GHz)	50-75	60-90	75-110	90-140	110-170
Test Port Power (typ.)*	6	6	6	-	-
RF Harmonic Factor	6	6	6	12	12
Current Draw (mA, typical, est., @ +9V)	~600	~600	~600		

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PSGX Performance



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PSGX Dimensions

