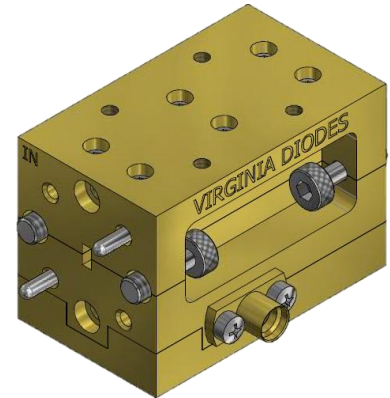


Description

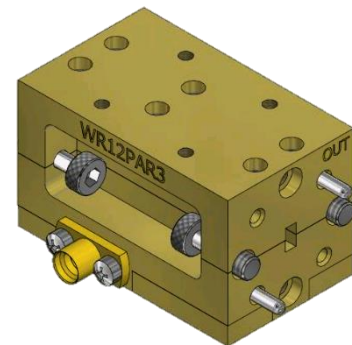
VDI12.0AMP-20-20 is a WR12 waveguide power amplifier with ~20dB gain and ~ +20dBm saturated output power across 60-90GHz.



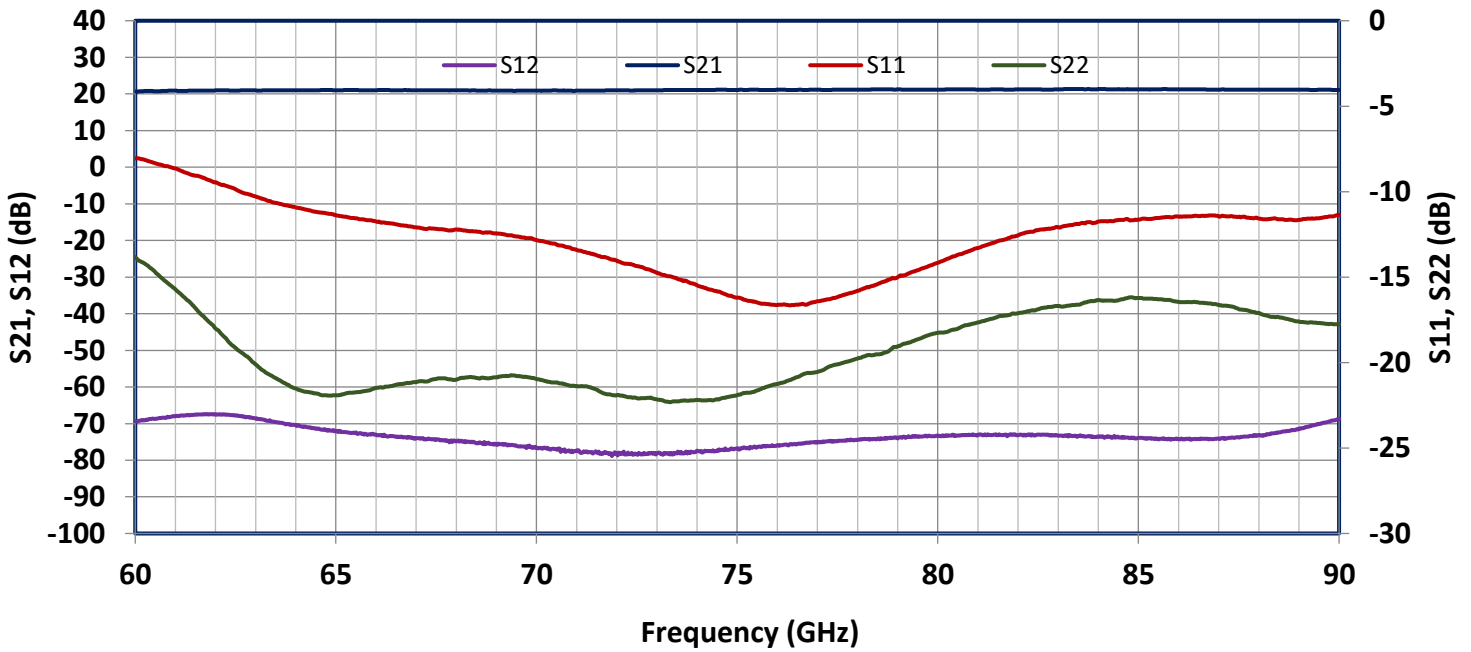
Parameter	Minimum	Typical	Maximum
Frequency	60 GHz		90 GHz
Gain		20 dB	
Input Power			+10 dBm
P _{1dB} (est.)		+17 dBm	
OIP3 (est.)		+27 dBm	
Saturated Output Power		+20 dBm	
Input Return Loss		-10 dB	
Output Return Loss		-10 dB	
DC Voltage	+8 V	+9 V	+10 V
DC Current Draw		150 mA	500 mA
Weight	-	~0.1lbs.	-
Case Temperature	20°C	25°C	40°C

Parameter	Specification
Input Flange	WR-12 UG-387/U-M
Output Flange	WR-12 UG-387/U-M
DC Voltage Bias Port	SMP(m)*
Size (without connectors)	0.75" x 0.85" x 1.25"

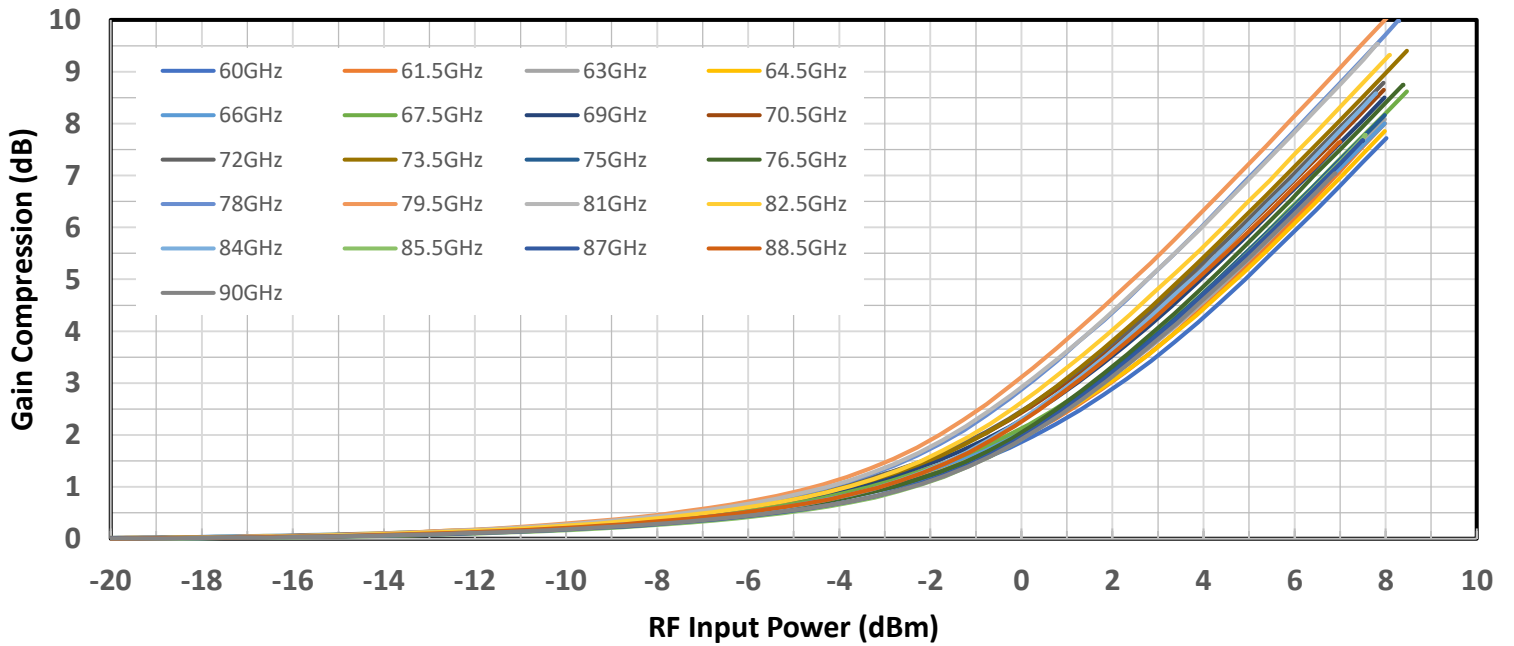
*Bias cable (SMP(f) to LEMO FFA.00.250) cable included.



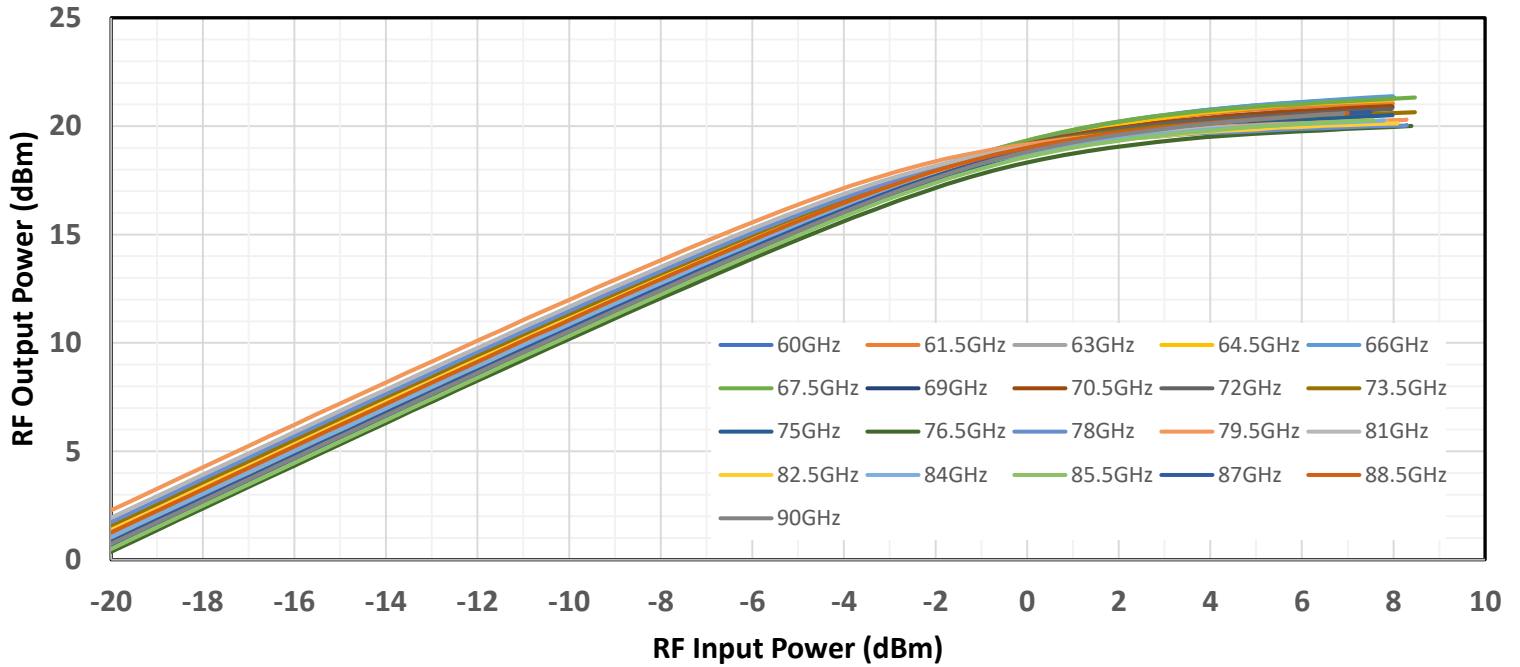
S-Parameters



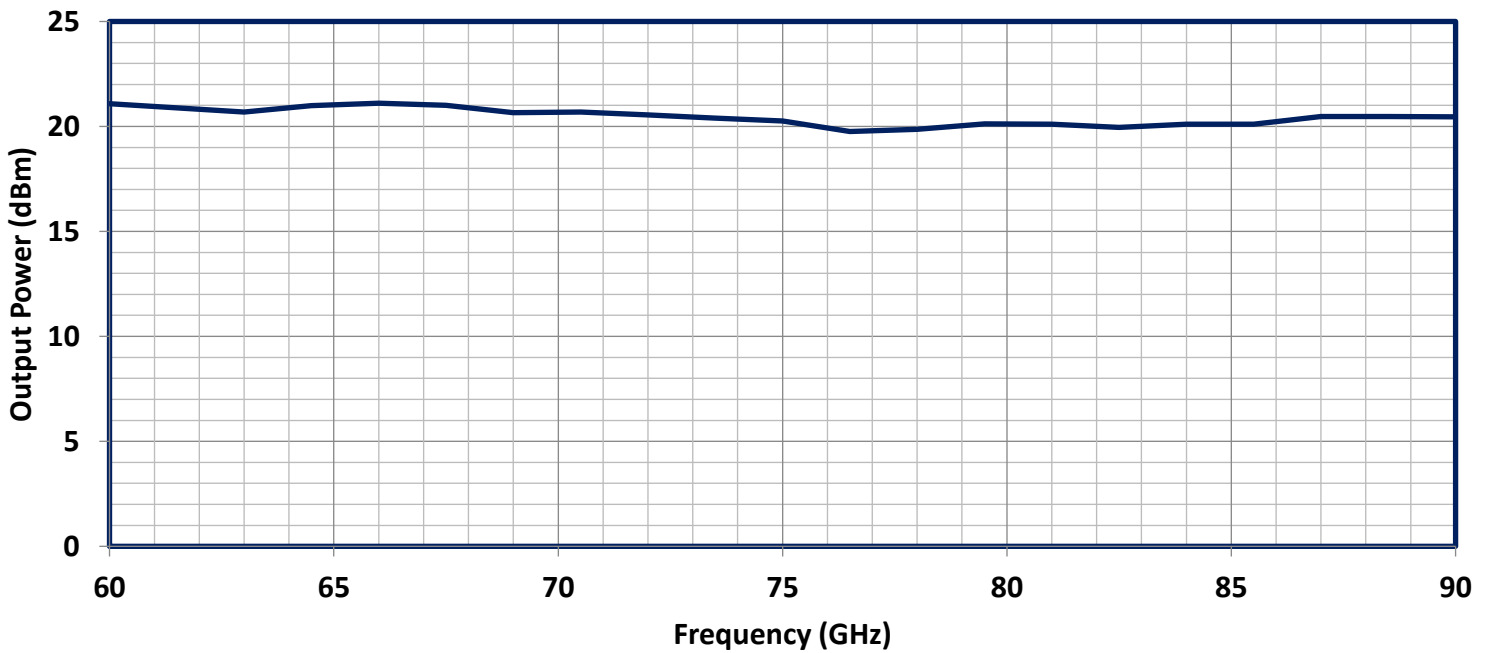
Gain Compression (dB) vs. RF Input Power (dBm)



RF Output Power (dBm) vs. RF Input Power (dBm)

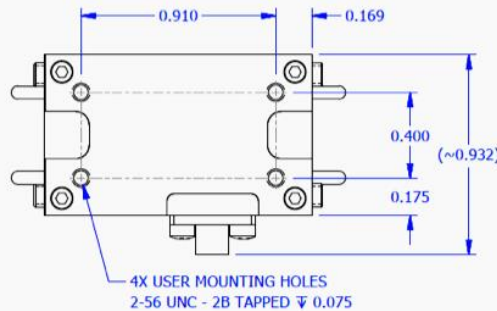
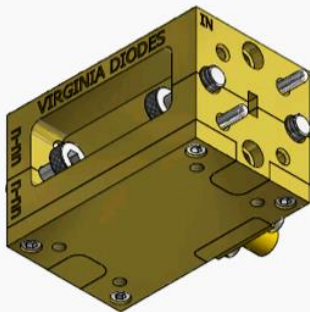
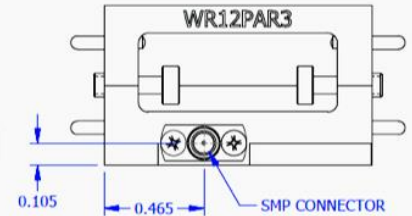
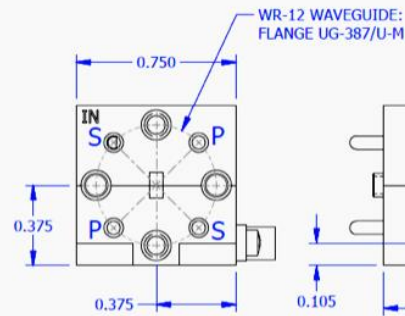
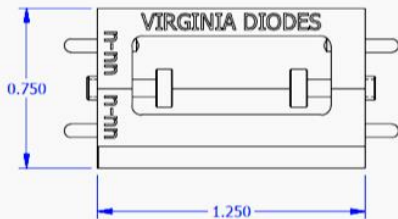
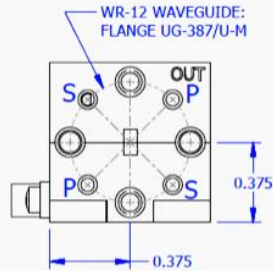
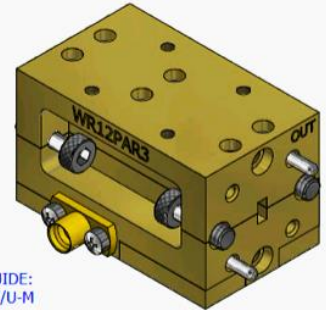
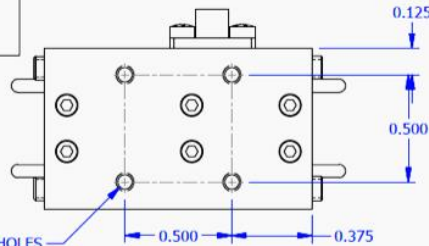


Saturated Output Power (dBm) vs. Frequency (GHz)



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WAVEGUIDE FLANGES:
(2) WR-12, UG-387/U-M
(1) SMP



NOTE: SPECIFICATIONS AND CHARACTERISTICS ARE TYPICAL AND SUBJECT TO CHANGE AT ANY TIME.

TITLE:
WR-12PAR3V1

MATERIAL:
ALUMINUM ALLOY (MAY BE GOLD PLATED)

LAST REV. DATE: 2/25/2019 SHEET: 1 OF 1

MODEL #:
WR12PA

LAST REV.: R3V1 UNITS: INCH



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