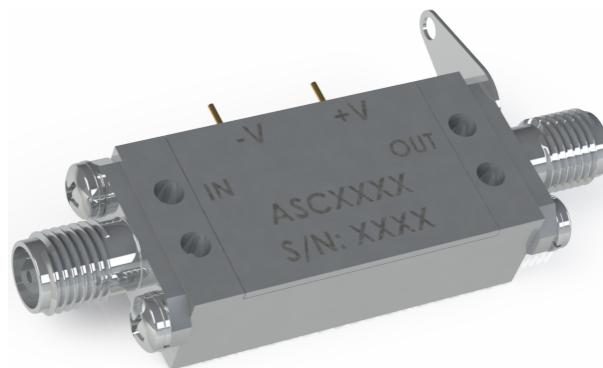


Features: (typical values)

- QORVO QPA2237 IN SMA-F
- Output Power..... +40 dBm
- Small Signal Gain +20 dB
- Unconditional Stability
- Requires +32V and -5V Supplies
- Requires heat sink
- All-purpose GaN driver
- Commercial and Military Radar
- Electronic Warfare
- Communications
- Optional: Available in Single +34V Supply

**30-2500 MHz
Wideband 10W GaN Amplifier**



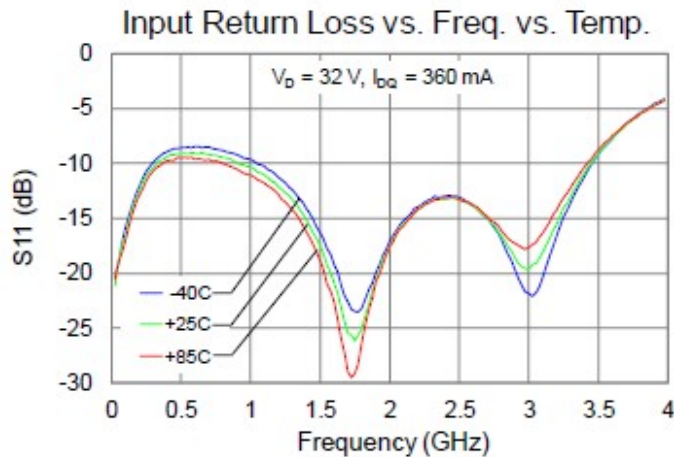
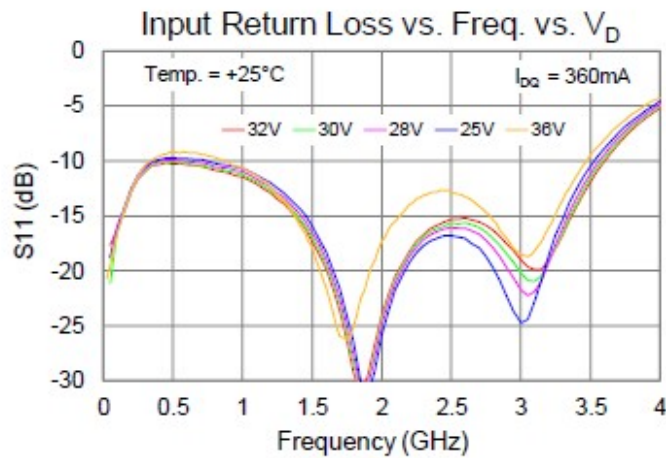
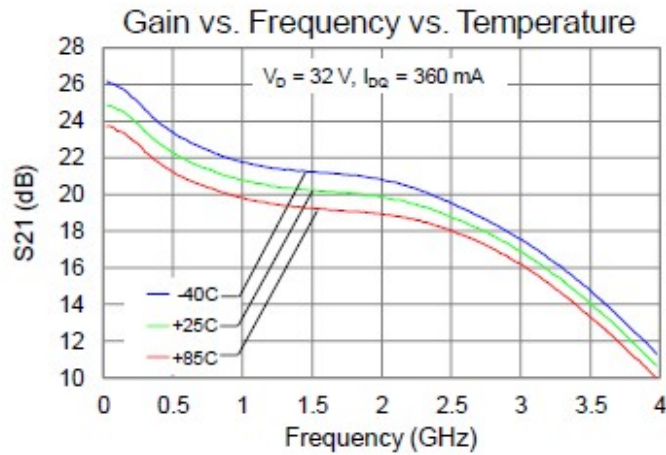
Maximum Ratings

- Operating Base Temp. -40°C to +85°C
- Storage temperature -55°C to +150°C
- DC Operating Voltage +40/-5V
- RF Input Power +33 dBm. Max

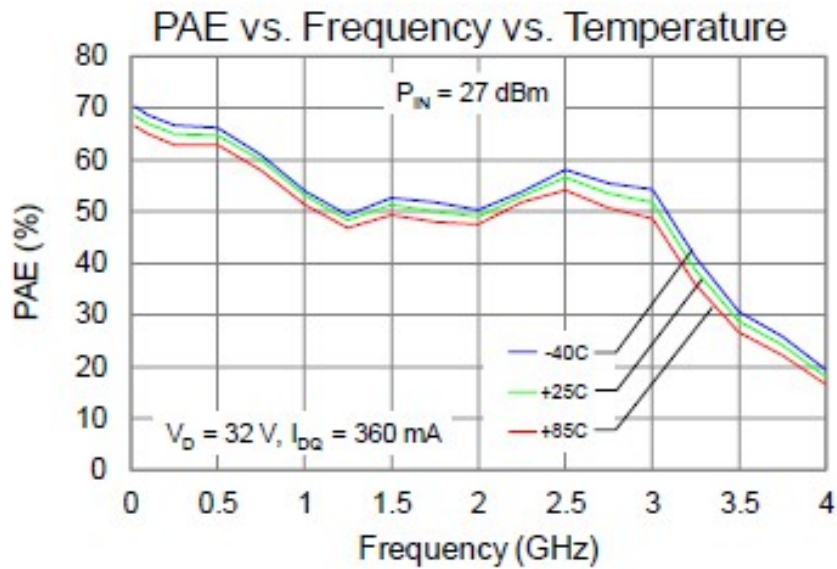
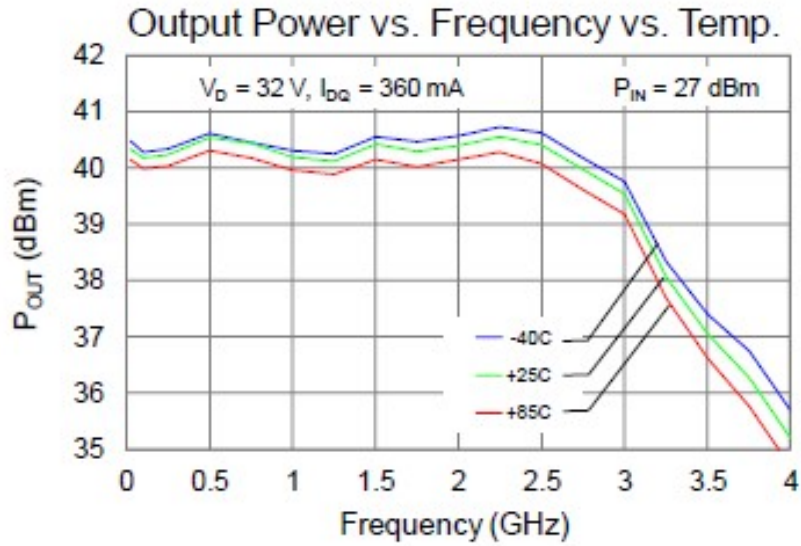
Specifications @ Tcase = 25°C, Vcc = +32V and -5V, 50 ohm systems unless otherwise noted.

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		30	2500	MHz.
Gain	20	18		dB.
Gain Flatness	±1.5			dB.
Input VSWR – 50 OHMS	2.2:1			-
Output VSWR – 50 OHMS	2.0:1			-
PAE @ Pin = 27dbm	50			%
Output Power @+27dbm	40	38		dBm.
INPUT/OUTPUT Connector SMA-F				.
Supply Current Idq @ +32V Drain Voltage and -5V Gate	360			mA

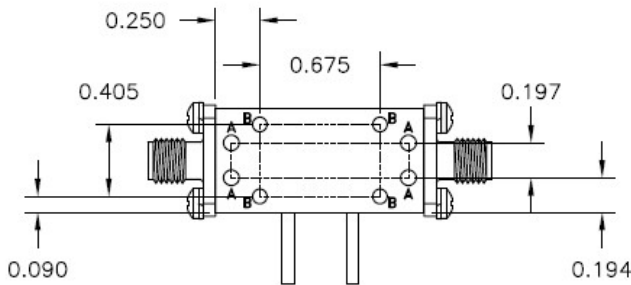
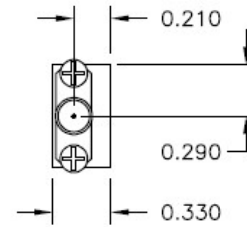
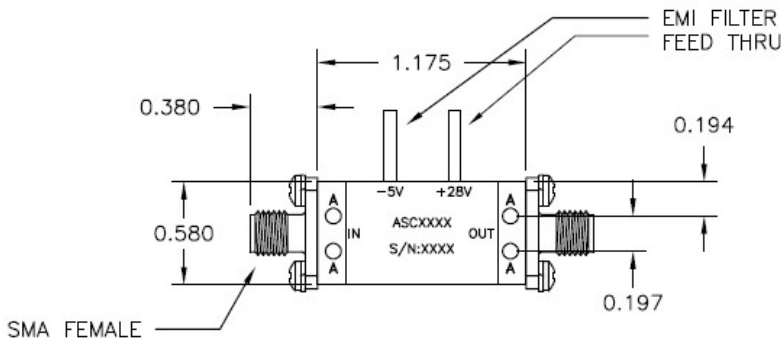
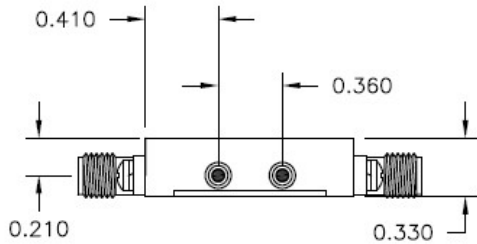
TYPICAL GAIN, INPUT, AND OUTPUT RETURN LOSS PLOTS @ 25°C



TYPICAL OUTPUT POWER PERFORMANCE @ 25°C

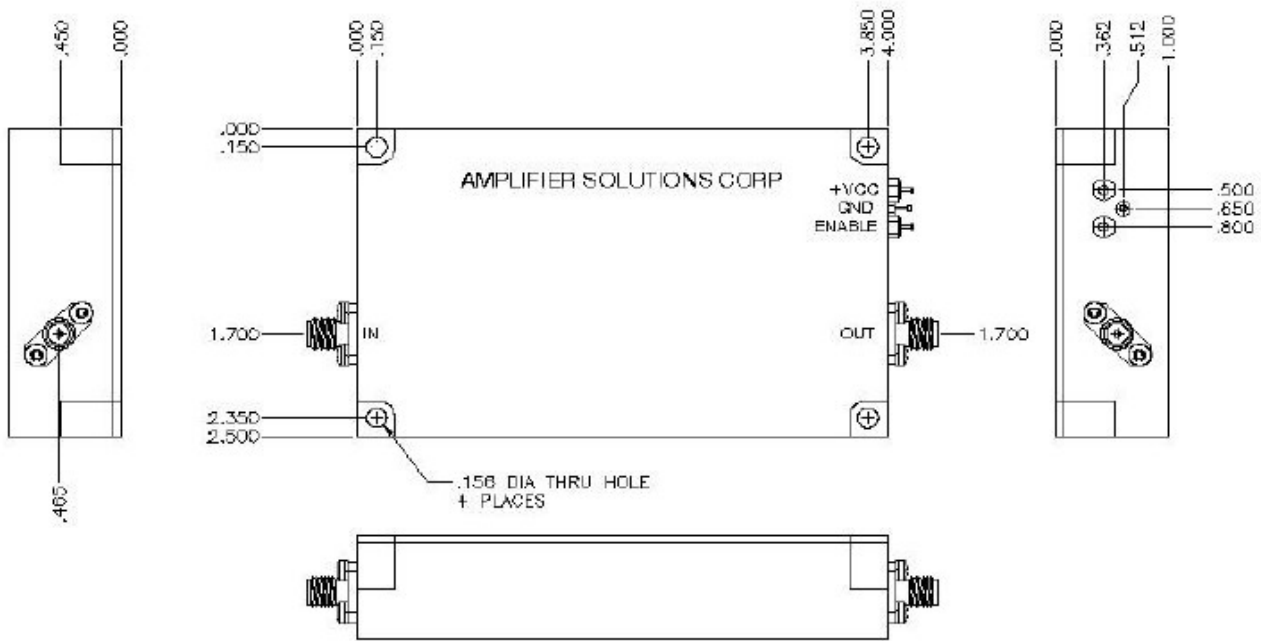


OUTLINE

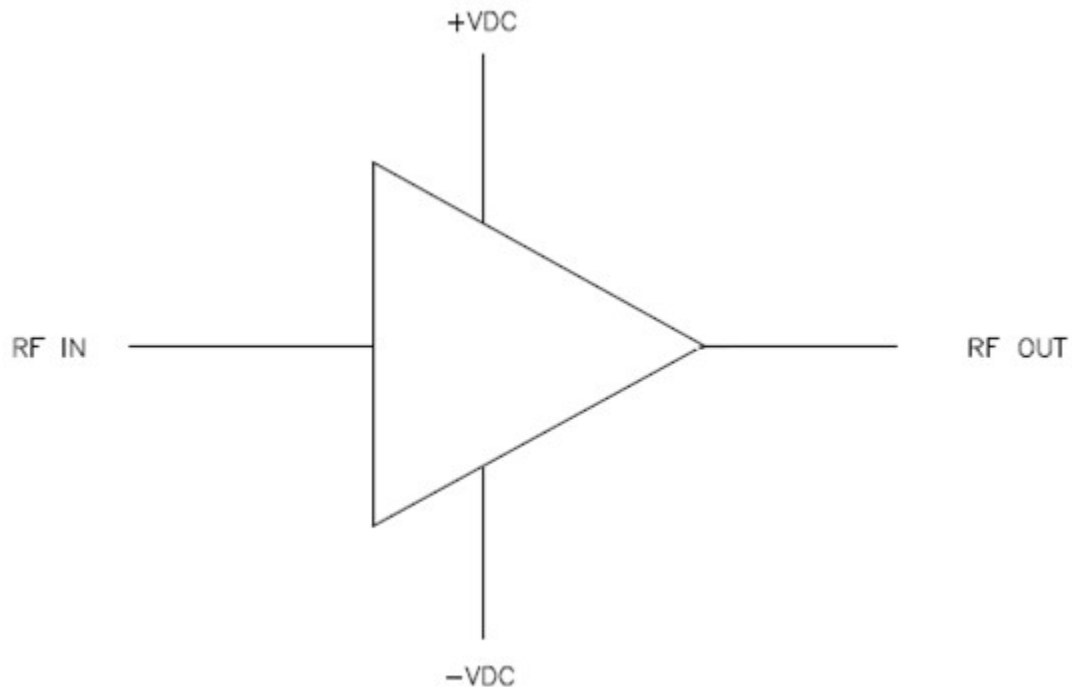


HOLE CHART	
HOLE	DESCRIPTION
A	∅0.090 THRU
B	#2-56-UNC-2B, .100 DP MIN

OPTIONAL FOR HOUSING SINGLE +30V SUPPLY



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED