

Product Features

- Solid-state linear design
- Small and light weight
- Suitable for UMTS
- 50 Ohm Input/Output impedance
- High reliability and ruggedness
- Built in Output Isolator
- Built in monitoring circuit
- High efficiency

Application

- UMTS Repeater



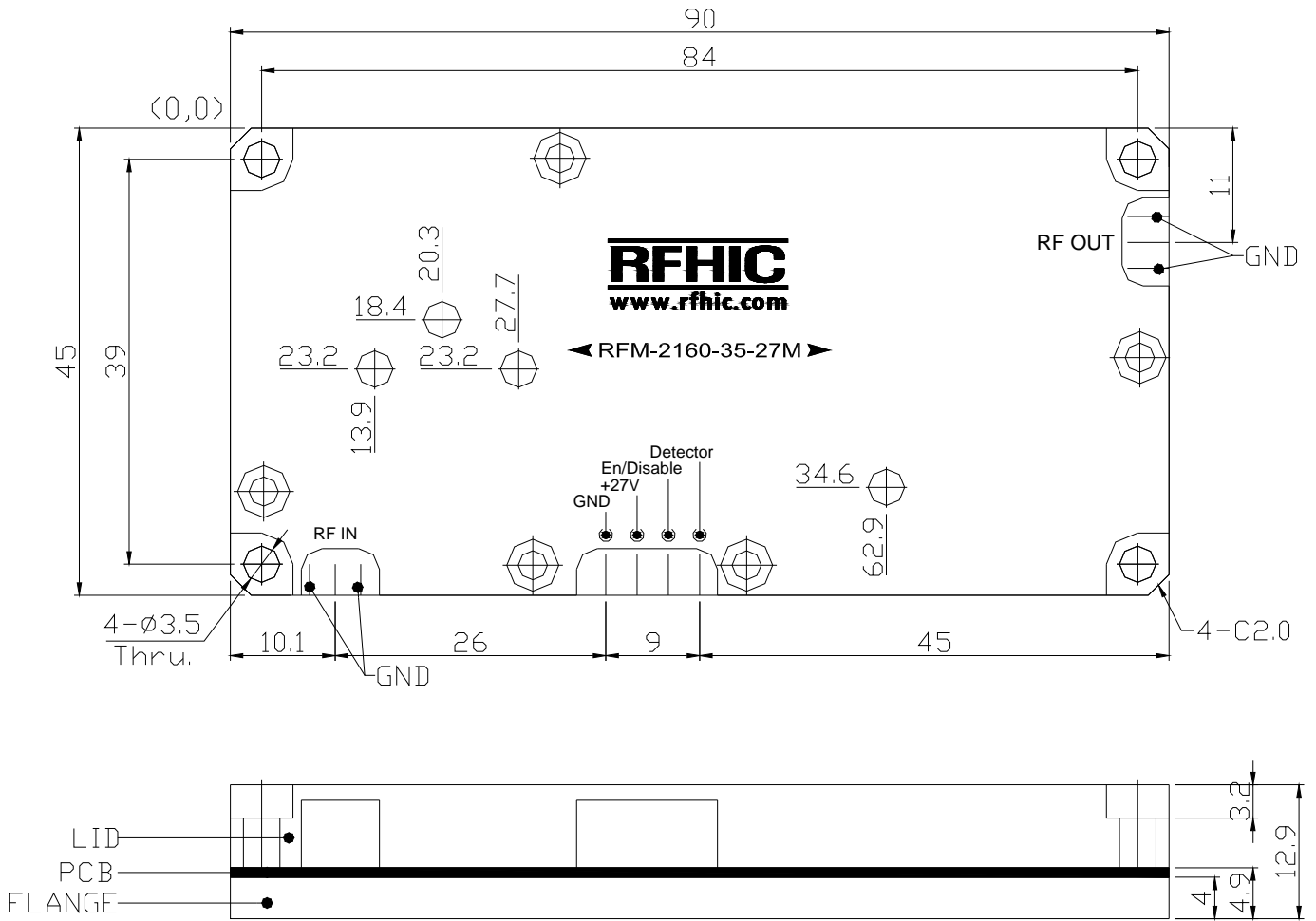
Description

This HPA Module is a high gain, wide dynamic range amplifier module. It has superior performance comes with a modest price tag. Custom design available.

Electrical Specifications @ VDD=+27DC, T=25°C, 50Ω System

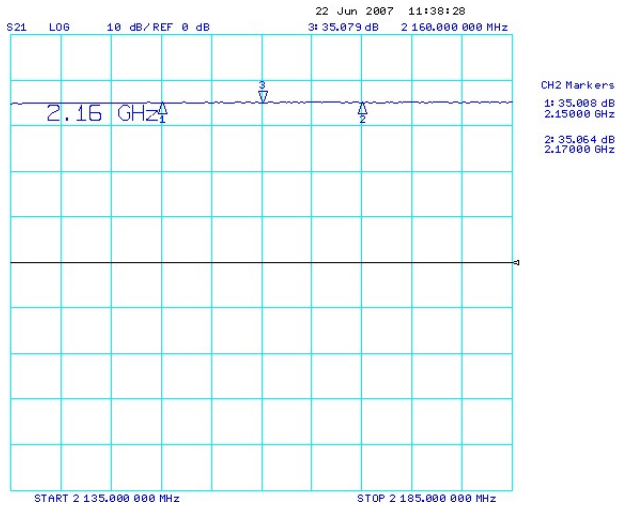
PARAMETER	Symbol	Specification	
Frequency Range	BW	2110 ~ 2170MHz	
Operating Bandwidth	OBW	20MHz	
Output Power	P	35dBm @ WCDMA 4FA	
Gain	G	35dB ±1dB (min)	
Gain Flatness	ΔG	1.0dB (peak to peak)	
Gain Variation	ΔG _{TEMP}	±1dB (max)	
ACLR @ WCDMA 4FA 35dBm	ACLR	±5MHz @ 30KHz RBW	-45dBc
		±10MHz @ 30KHz RBW	-50dBc
Input/Output VSWR	S11/S22	1.5 :1 (max) to 50Ω	
Output protection		Isolator Included	
Enable (ON/OFF)		Enable : TTL Low or GND Disable : TTL High or Open	
Output Power Detector		4.0V±0.1V @ WCDMA 4FA 35dBm (100mV/1dB) Detect range : 5dBm ~ 35dBm	
DC Input Voltage	VDC	+27V DC	
DC Input Current	IDD	Typ. 1.4A, MAX 1.7A (@Vdc= +27V, @ WCDMA 4FA 35dBm)	
Operating Temperature	To	-10 ~ +50°C	
Storage Temperature	Ts	-40 ~ +85°C	
Dimension		90 x 45 x 12.9 (mm)	

OUTLINE DRAWING

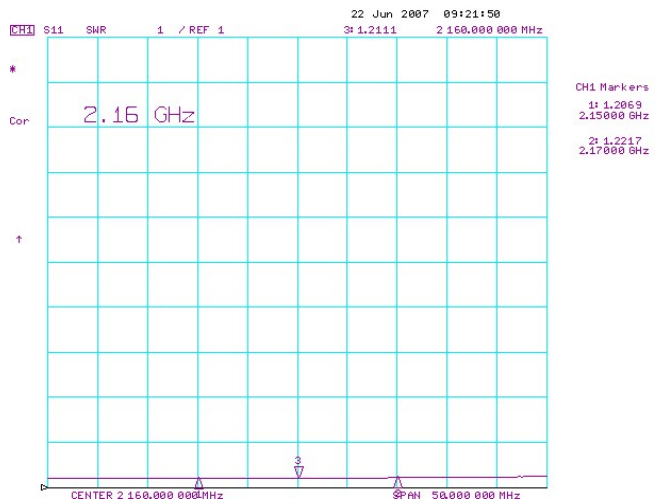


TYPICAL PERFORMANCE

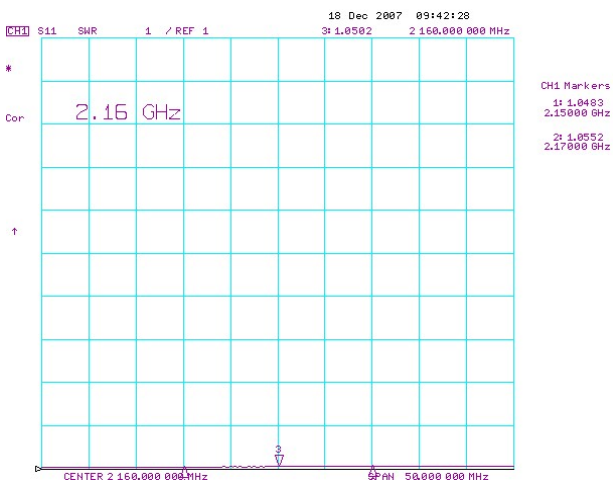
Gain



S11

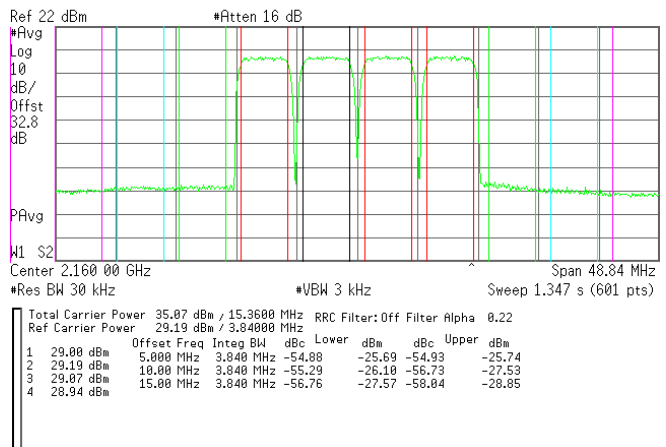


S22



ACLR @ WCDMA 4FA, 35dBm

Agilent 09:32:07 Dec 18, 2007



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