

## 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



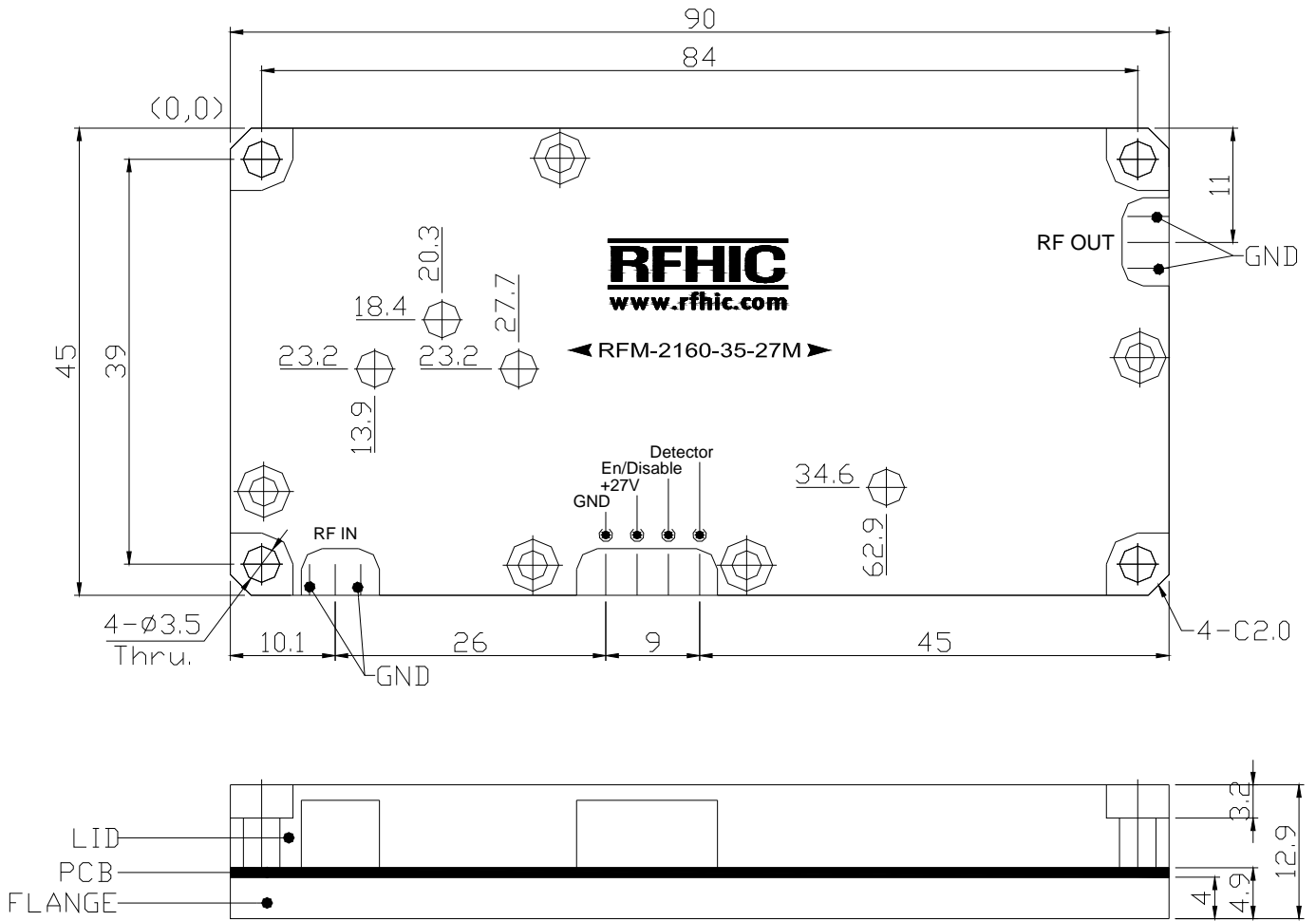
## Description

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

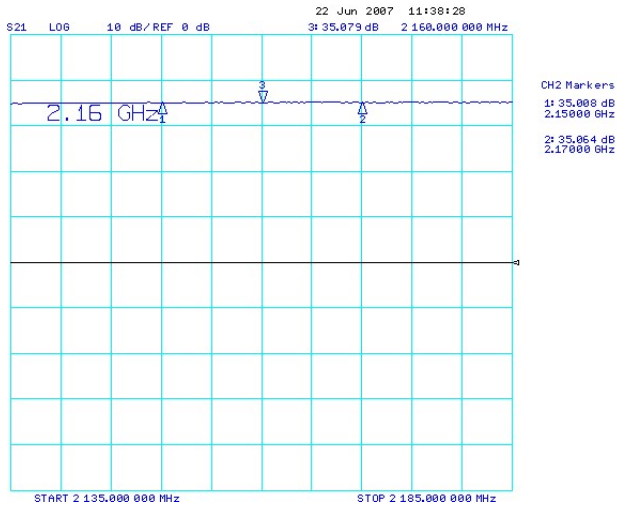
PARAMETER	Symbol	Specification	
Frequency Range	BW	2110 ~ 2170MHz	
Operating Bandwidth	OBW	20MHz	
Output Power	P	35dBm @ WCDMA 4FA	
Gain	G	35dB ±1dB (min)	
Gain Flatness	ΔG	1.0dB (peak to peak)	
Gain Variation	ΔG <sub>TEMP</sub>	±1dB (max)	
ACLR @ WCDMA 4FA 35dBm	ACLR	±5MHz @ 30KHz RBW	-45dBc
		±10MHz @ 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

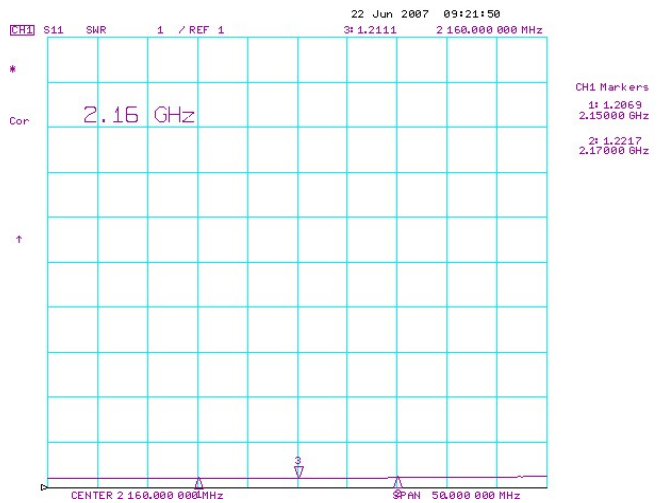


## TYPICAL PERFORMANCE

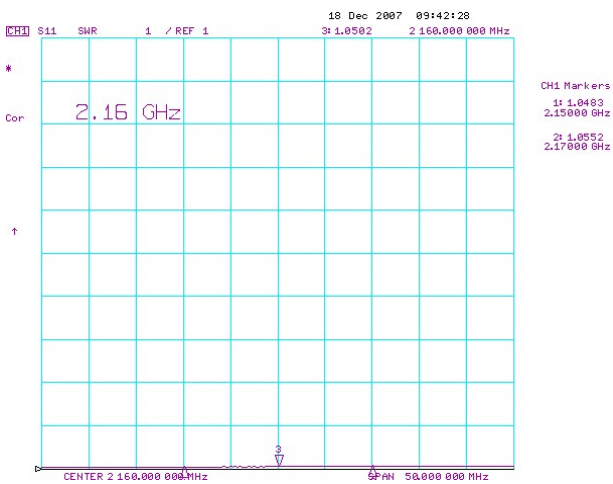
**Gain**



**S11**

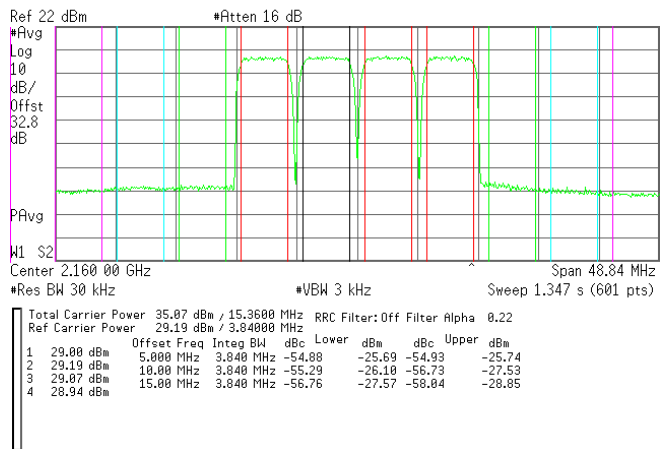


**S22**



**ACLR @ WCDMA 4FA, 35dBm**

Agilent 09:32:07 Dec 18, 2007



RFHIC Corporation (RFHIC) reserves the right to make changes to any products herein or to discontinue any product at any time without notice. RFHIC do not assume any liability for the suitability of its products for any particular purpose, and disclaims any and all liability, including without limitation consequential or incidental damages. The product specifications herein expressed have been carefully checked and are assumed to be reliable. However, RFHIC disclaims liability for inaccuracies and strongly recommends buyers to verify that the information they are using is current before placing purchase orders. RFHIC products are not intended for use in life support equipment or application where malfunction of the product can be expected to result in personal injury or death. Buyer uses or sells such products for any such unintended or unauthorized application, buyer shall indemnify, protect and hold RFHIC and its directors, officers, stockholders, employees, representatives and distributors harmless against any and all claims arising out of such use. RFHIC's liability under or arising out of damages, claims of whatsoever kind and nature which RFHIC products could cause shall be limited in amount to the net purchase price of the products sold to buyer by RFHIC.