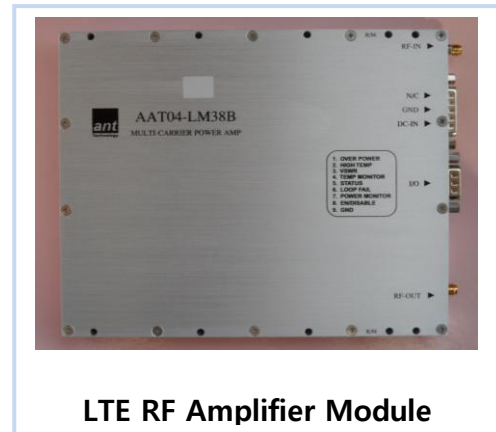


Product Features

- LTE E-UMTS Band 12, 13, 17 MCCA Design
- Excellent Suppression IMD, FDD Duplex Mode
- High linearity LTE RF Amplifier Module
- Suitable for Analog & Digital Modulation
- Feed - Forward Technology Amplifier[FFTA]

Application

- LTE Repeater, Booster, BDA, DAS System



LTE RF Amplifier Module

1. Electrical Specification.

Parameter	Specification	Remark
Frequency Range	728MHz~757MHz	39MHz BW
Output Power	38dBm(6.3W)	ALC 39dBm : Min 10dB
Gain	45dB±1dB	
Gain Flatness	±0.5dB	
Gain Variation Over Temp.	±1dB max	-20°C~+60°C
IMD	< -71dBc	CW 2 tone, Ch Sp. : 100kHz
Harmonic	-40dBc max	
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+27V	
DC Current Consumption	2.0A max.	@38dBm
Shut-down Temp Level	90±5°C	70±5°C Auto Enable

2. Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-20°C~+60°C	
Storage Temperature	-40°C~+85°C	
Relative Humidity	0%~90%	Non-condensing



3. Mechanical Specification.

Physical Dimension : 150mm X 180mm X 28mm

4. Pin Assignment

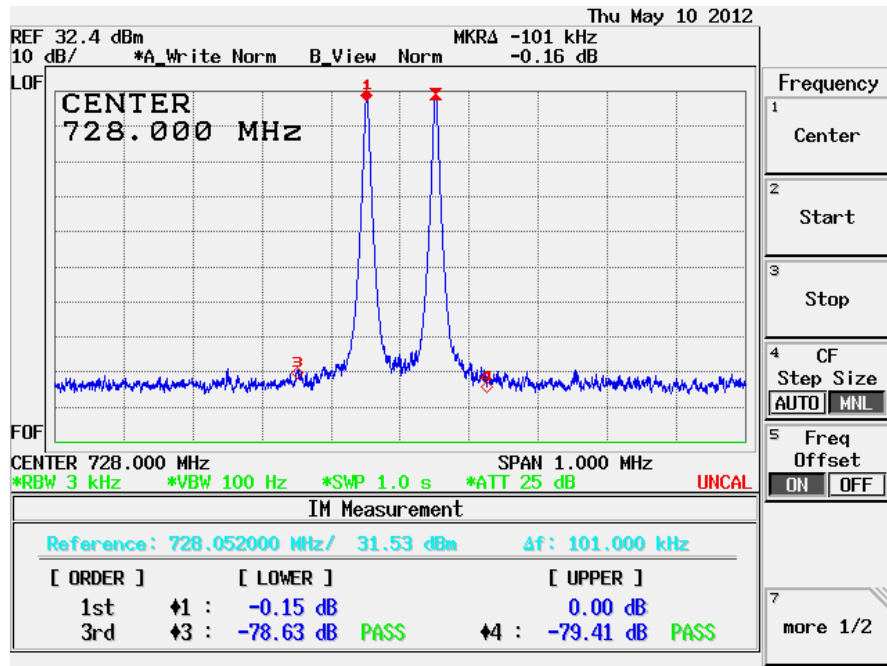
I/O Interface (D-Sub 9Pin Male)	1. Over Power Alarm	Po=+40dBm±1dB Shutdown High
	2. High Temp. Alarm	High (shut-down) Low (Normal) Alarm & Shutdown +90°C ↑ Auto Recovery +70°C ↓
	3. VSWR Alarm	High (Alarm) Low (Normal) 30dBm(Output Open)
	4. Temp. Monitor	$V_o = (T / 100) + 500mV$
	5. LPA Status	High (Inactive), Low (Active)
	6. Loop Fail Alarm	High (shut-down) Low (Normal)
	7. FWD Power Monitor	4.0V@Po=+38dBm, 0.1V/dB
	8. Enable/Disable	High (Disable) Open or Low (Enable)
	9. GND	
	DC Fail Alarm	≤19V ~ 31V ≤ : Shut down 21V ~ 29V : Auto Recovery
I/O Interface (3W3P Male)	A1. VCC	+27V
	A2. GND	
	A3. N.C	



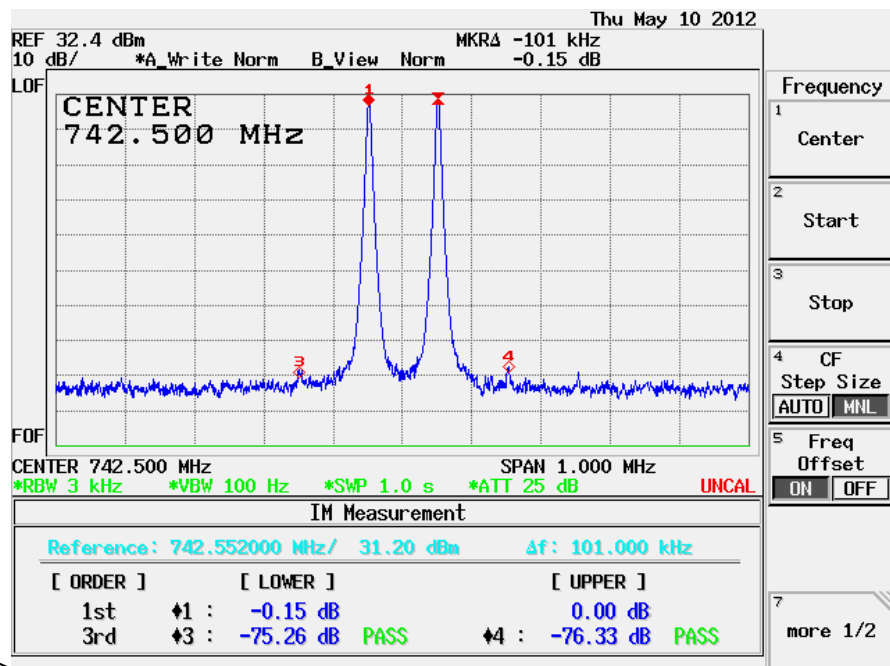
5. Electrical Test Data

** IMD @Po=+38dBm(CW 2 Tone) / DC 27V, 1.8A

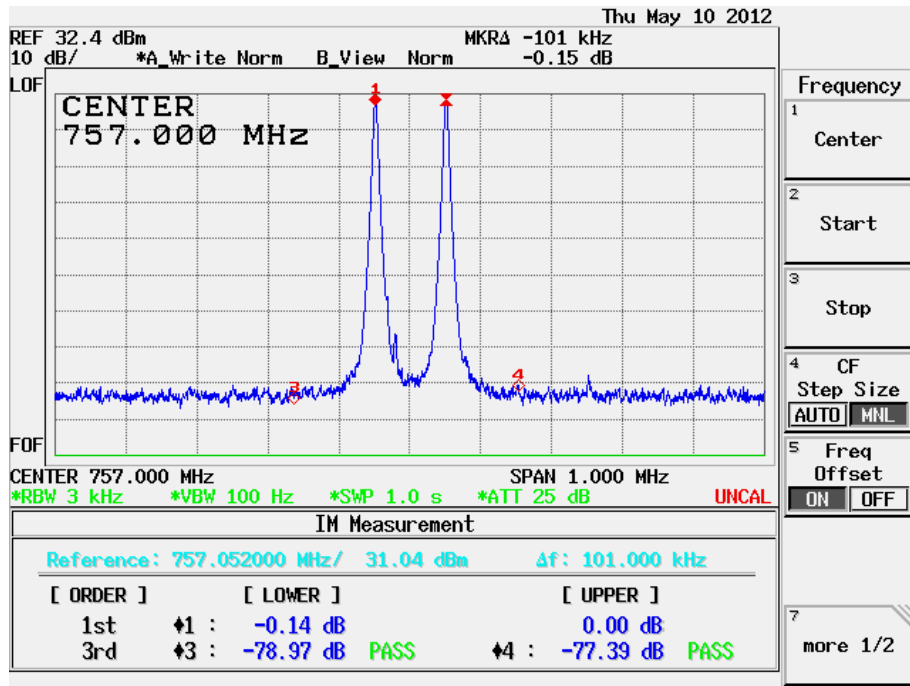
■ Spectrum Analyzer Data



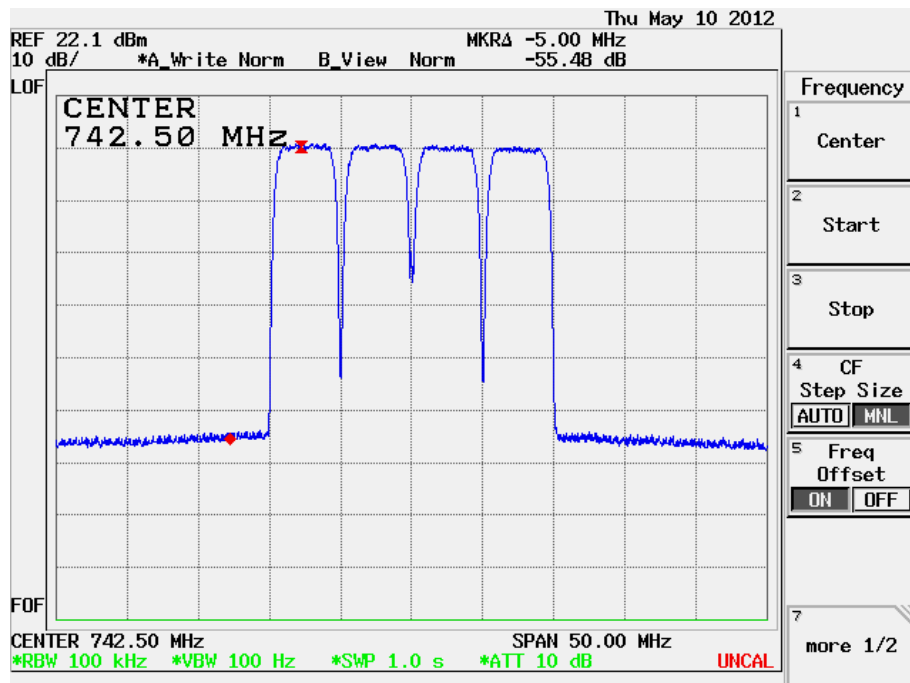
< IMD @ 728MHz >



< IMD @ 742.5MHz >



< IMD @ 757MHz >



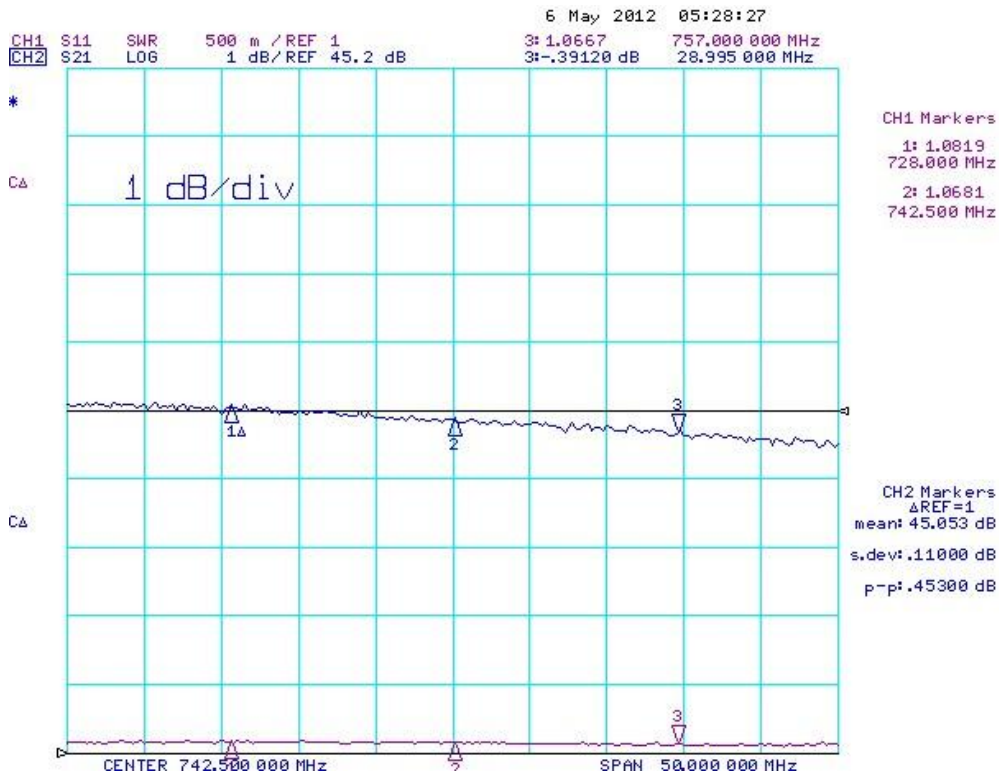
< WCDMA 4FA >

-55.48dBc (-Δ5MHz)

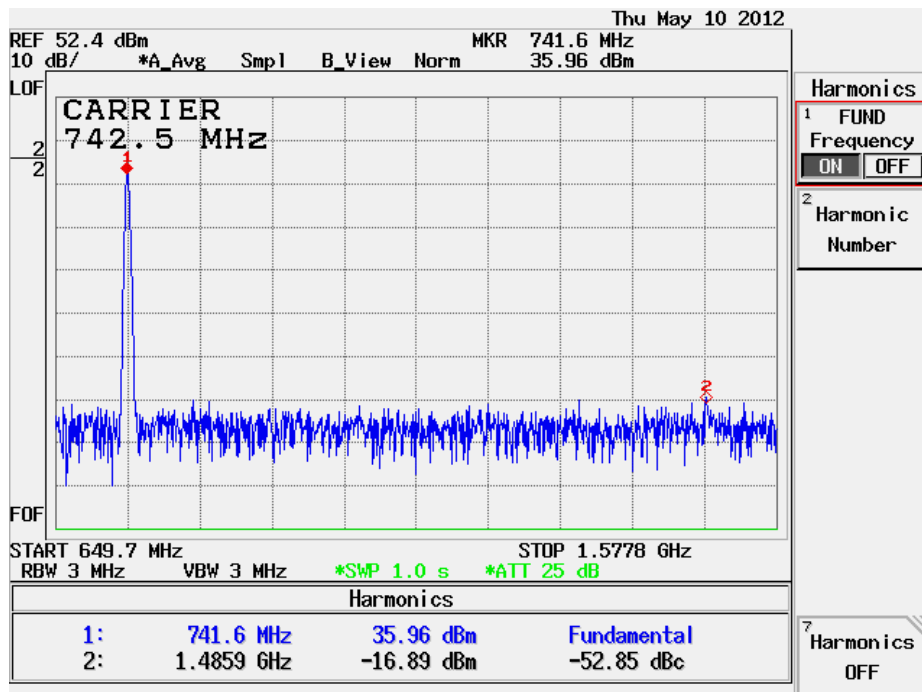


■ Network Analyzer Data

< S11 & Gain > Input V.S.W.R 1.09:1 , Flatness 0.45dB p-p



< Harmonics @ 742.5MHz > -52.85dBc





6. Outline Drawing : 150mm * 180mm * 28mm

