AAG09-LM35A-F1

Ant Technology is RF Amplifier R&D & Manufacturing Company

Product Features

- E-GSM900 MCPA[Multi carrier RF amplifier]
- Solid State power amplifier
- High linearity and high efficiency
- 50 ohms input / output impedance

Application

- GSM Repeater & Booster & BDA

E-GSM Multi Carrier RF Amplifier

1. Electrical Specification.

Parameter	Specification	Remark
Frequency Range	925MHz~960MHz	35MHz BW
Output Power	3W	ALC 36dBm : Min 10dB
Gain	45dB±1dB	
Gain Flatness	±0.5dB	
Gain Variation Over Temp.	±1dB max	-20℃~+60℃
IMD	< -69dBc	CW 2 tone, Ch Sp. : 1MHz
	< -60dBc	CW 16 tone, Ch Sp. : 600kHz
Harmonic	-45dBc max	
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+27V	
DC Current Consumption	2A max.	@3W
Shut-down Temp Level	90±5℃	70±5℃ Auto Enable

2. Environmental Specification

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

3. Mechanical Specification.

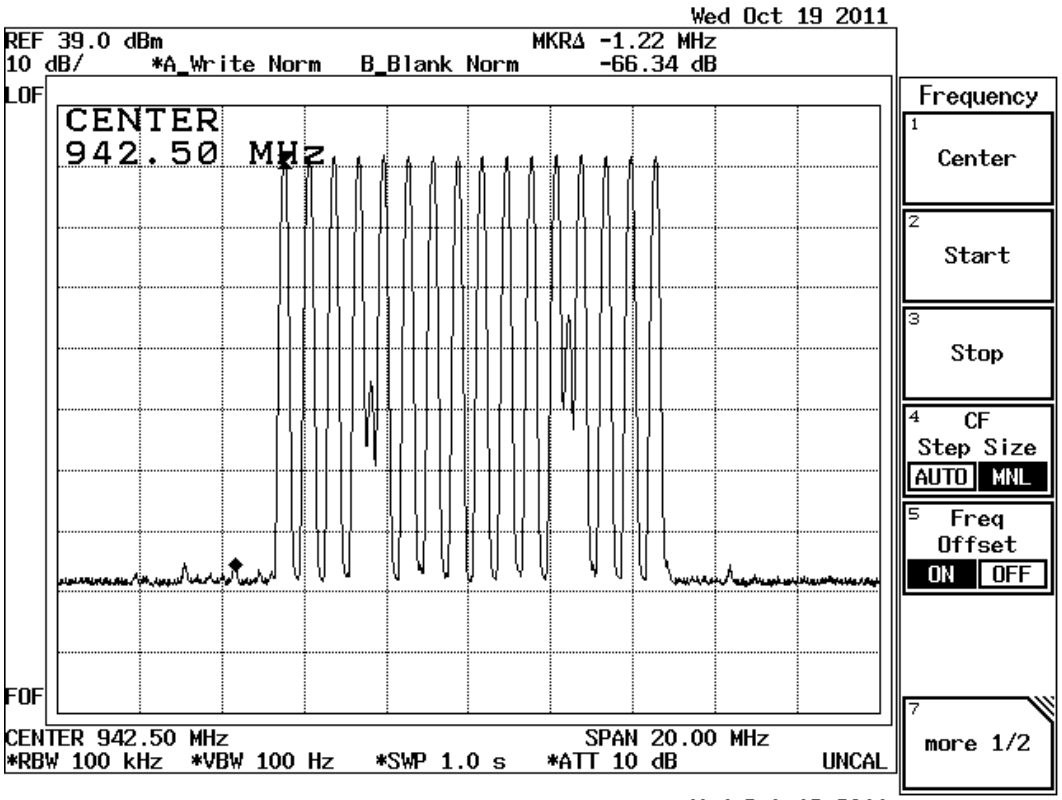
Physical Dimension : 155mm X 185mm X 35mm

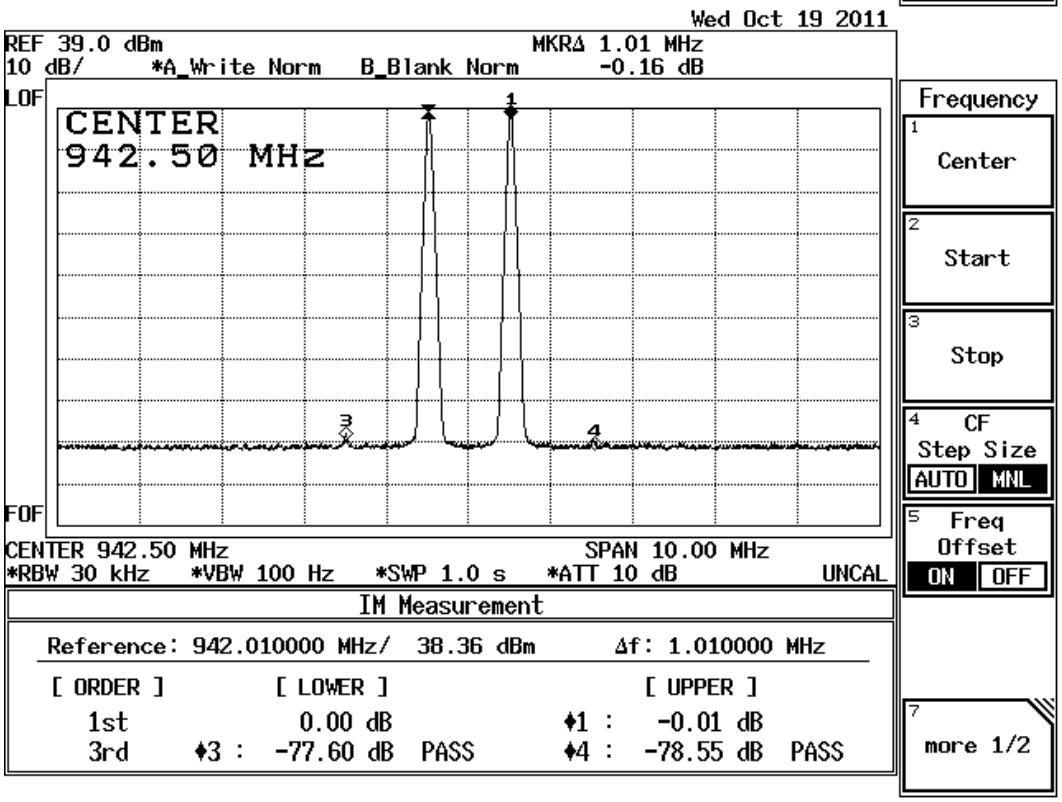
4. Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1. Over Power Alarm	Po=+37dBm±1dB Shutdown High
	2. High Temp. Alarm	High (shut-down) Low (Normal) Alarm & Shutdown +90℃↑ Auto Recovery +70℃↓
	3. VSWR Alarm	High (Alarm) Low (Normal) 30dBm(Output Open)
	4. Temp. Monitor	Vo=(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=+35dBm, 0.1V/dB
	8. Enable/Disable	High (Disable) Open & 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

5.1 IMD @Po=+35dBm(CW 16 Tone / CW 2 Tone) / DC 27V, 1.7A (GSM900 RF Amplifier)





6. Outline Drawing