

Product Features

- DCS1800, GSM1800 Multi carrier RF amplifier [MCPA]
- Excellent Suppression IMD
- High linearity and high efficiency
- Suitable for Analog & Digital Modulation
- Feed - Forward Technology Amplifier[FFTA]

Application

- DCS1800, GSM1800 Repeater & Booster, BDA
TMA, TMB



1. Electrical Specification.

Parameter	Specification	Remark
Frequency Range	1805MHz~1880MHz	75MHz BW
Output Power	10W	ALC 42dBm : Min 10dB
Gain	50dB±1dB	
Gain Flatness	±0.5dB	
Gain Variation Over Temp.	±1dB max	-20°C~+60°C
IMD	< -70dBc	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	3.5A max.	@10W
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 & Weight

Physical Dimension : 155mm X 185mm X 35mm, 1.6Kg

4. Pin Assignment

I/O Interface	Specification	Remark
(D-Sub 9Pin Male)	1. Over Power Alarm	Po=+43dBm±1dB Shutdown High
		High (shut-down)
		Low (Normal)
	2. High Temp. Alarm	Alarm & Shutdown +90°C ↑ Auto Recovery +70°C ↓
		High (Alarm)
		Low (Normal)
	3. VSWR Alarm	30dBm(Output Open)
	4. Temp. Monitor	$V_o = (T / 100) + 500mV$
	5. LPA Status	High (Inactive), Low (Active)
	High (shut-down)	
	Low (Normal)	
7. FWD Power Monitor	4.0V@Po=+40dBm, 0.1V/dB	
	High (Disable)	
8. Enable/Disable	Open & Low (Enable)	
9. GND		
	DC Fail Alarm	≤19V ~ 31V ≤ : Shut down 21V ~ 29V : Auto Recovery

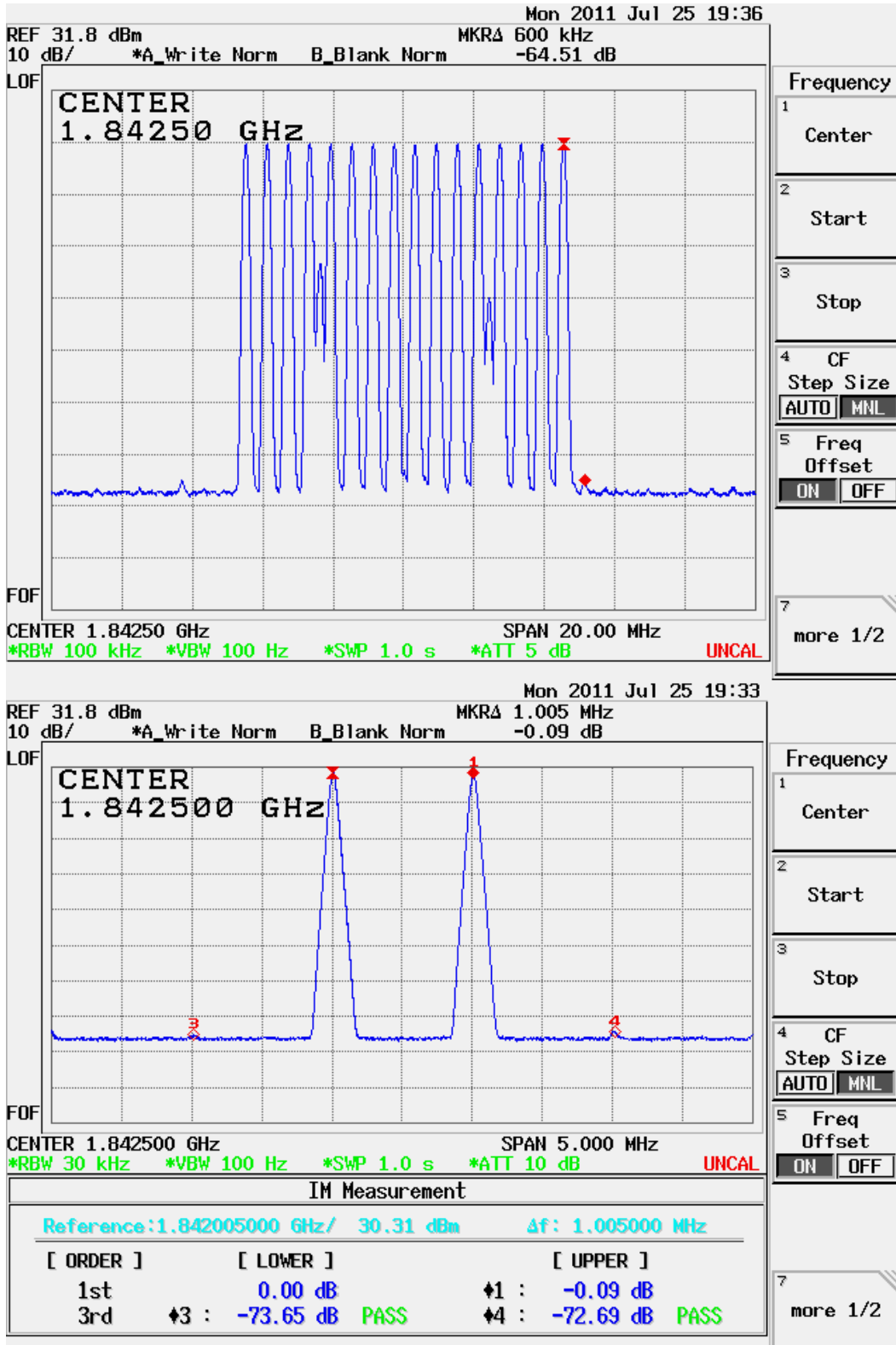


I/O Interface	A1. VCC	+27V
(3W3P Male)	A2. GND	
	A3. N.C	



5. Electrical Test Data

5.1 IMD @Po=+40dBm(CW 16 Tone / CW 2 Tone) / DC 27V, 2.8A





6. Outline Drawing

