

Product Features

- RF power Amplifier applied RFPAL
- LDMOS Based Power Amplifier
- High linearity and high efficiency
- Analog Pre-Distortion Technique

Application

- WCDMA Repeater



Electrical Specification

Parameter	Specification	Remark
Frequency Range	2150MHz~2170MHz	
Operation Bandwidth	20MHz	
Output Power	16W(+42dBm)	WCDMA 4FA
Input Power	-8dBm@Nomal, Po=42dBm	WCDMA Source
Gain	50dB±1dB	Po=22~42dBm
Gain Flatness	±0.5dB max.	
Gain Variation Over Temp.	±1dB max	
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	
ACLR(64DPCH WCDMA) @16W/4FA	±5MHz < -47dBc ±10MHz < -50dBc	
Spectrum Emission Mask	PER 3GPP TS-25.141	
Normal Operating Voltage	+29V	
Current Consumption	4A(Max.)/3.7A(Typ.)	42dBm, +29Vdc



Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-20°C~+60°C	
Storage Temperature	-30°C~+85°C	
Relative Humidity	0%~90%	Non-condensing

Mechanical Specification

Physical Dimension : 140mm X 100mm X 28mm

In/Output Connector : SMA 4Hole Female

Pin Assignment

I/O Interface (D-Sub 15pin Female)	1~4.	VCC	+29Vdc
	5~6.	Reserved	Tx/Rx
	7~9.	GND	Ground
	10.	FWD Power Monitor	4.0V@+42dBm/4FA, 0.1V/dB
	11.	Over Power Alarm	Alarm, Shutdown& Auto Recovery @+44dBm±0.5dBm, TTL High
	12.	VSWR Alarm	3:1@42dBm/4FA, TTL High
	13.	Temp Monitor	50°C/2.01V, 0.1V/10°C
	14.	Over Temp. Alarm	Shutdown@85°C±5°C, TTL High Recovery@65°C±5°C
	15.	Enable / Disable	0V[on], 5V or Open[off]



Outline Drawing

