

Product Features

- High power RF amplifier
- Solid State power amplifier
- High linearity and high efficiency
- 50 ohms input / output impedance

Application

- T-DMB(AT-DMB) Repeater and Transmitter



Electrical Specification

Parameter	Specification	Remark
Frequency Range	204~210MHz (12CH)	
Output Power	50W	
Gain	55dB±1dB	
Gain Flatness	±0.5dB max.	
Gain Variation Over Temp.	±1dB max.	
Spurious Emission	±970kHz < -45dBc ±1.75MHz < -48dBc	T-DMB 1 ensemble
Input VSWR	1.5:1 max	
Output VSWR	1.5:1 max	
DC Current Consumption	8A max. @Normal Power 9A max. @ALC Point	+50V

Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-10°C ~ +45°C	
Storage Temperature	-20°C ~ +60°C	
Relative Humidity	0%~90%	Non-condensing



Mechanical Specification

Physical Dimension : 302mm x 177mm x 40mm

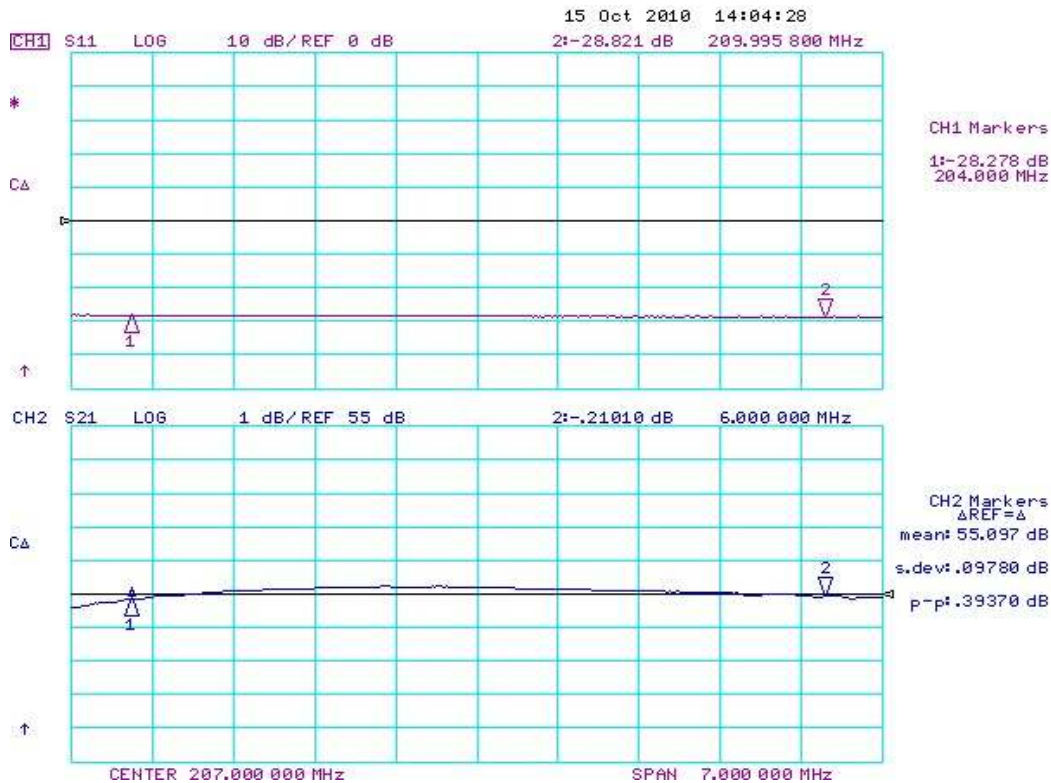
Pin Assignment

I/O Interface (D-SUB15 Female)	1.	FWD Power Monitor	4.0V@+47dBm, 100mV/dB
	2.	RVS Power Monitor	4.0V@+47dBm, 100mV/dB
	3.	Temp. Monitor	2.75V@+50°C, 10mV/°C
	4.	VDC Monitor	5.0V@+50V, 100mV/V
	5.	Enable	TTL Low
	6.	Spare	
	7.	Over Power Alarm	Alarm High, Shut Down and Recovery@Po=+49.5dBm ↑ ±0.5dB Pi=+0.5dBm ↑ ±0.5dB(ALC 6dB)
	8.	High Temp. Alarm	Alarm&Shut Down@+90°C±5°C Auto Recovery@+70±5°C
	9.	VSWR Alarm	Alarm High &Shut Down @4:1 ↑ & Po=+35dBm ↑ Recovery@4:1 ↓ or Po=+35dBm ↓
	10.	TR Fail Alarm	Alarm High
	13,14.	GND	
	11,12,15.	Spare	



Electrical Test Data

Gain & VSWR



ACLR

