

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	180~186MHz (8CH)	
Output Power	150W	
Gain	57dB±1dB	
Gain Flatness	0.5dB peak to peak	
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	25A max@Normal Power 30A 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 : 19" 3U



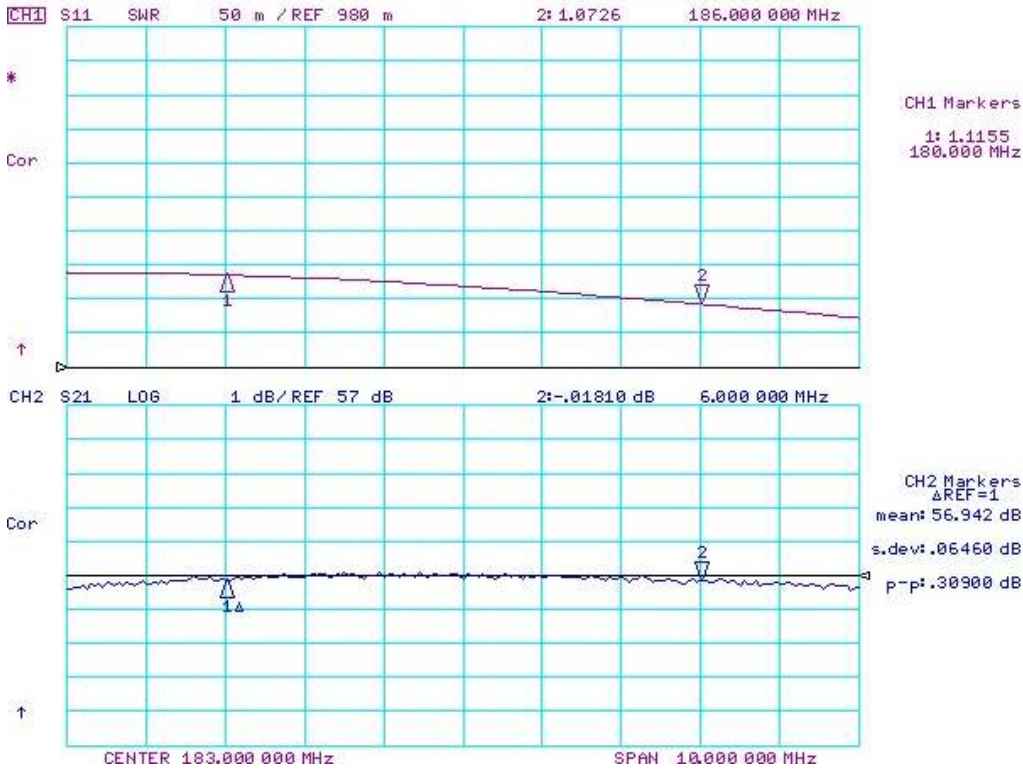
Pin Assignment

I/O Interface (D-SUB15 Female)	1.	FWD Power Monitor	3.8V@+52dBm, 100mV/dB
	2.	RVS Power Monitor	3.8V@+52dBm, 100mV/dB
	3.	Temp. Monitor	2.75V@+50°C, 10mV/°C
	4.	VDC Monitor	5.0V@+50V, 100mV/V
	5.	Enable	TTL Low
	6.	Fan Alarm	Alarm High
	7.	Over Power Alarm	Alarm High, Shut Down and Recovery@Po=+53.5dBm ↑ ±0.5dB Pi=+2.5dBm ↑ ±0.5dB(ALC 6dB)
	8.	High Temp. Alarm	Alarm&Shut Down@+95°C±5°C Auto Recovery@+70±5°C
	9.	VSWR Alarm	Alarm High & Shut Down @4:1 ↑ & Po=+40dBm ↑ Recovery@4:1 ↓ or Po=+40dBm ↓
	10.	TR Fail Alarm	Alarm High
	13,14.	GND	
	11,12,15.	Spare	
I/O Interface (D-SUB9 Female)	2.	TxD	
	3.	RxD	
	5.	GND	
LED Display	1.	DC ON	VDC(+50V) On
	2.	OP	Over Power Alarm
	3.	LP	Low Power Alarm (Low Gain)
	4.	OC	Over Current Alarm
	5.	HT	High Temp. Alarm
	6.	VSWR	VSWR Alarm



Electrical Test Data

Gain & VSWR



ACLR

