AAM02-HM47A-F1

Ant Technology is RF Amplifier R&D & Manufacturing Company

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

High Power T-DMB(AT-DMB) Amplifier

Electrical Specification

Parameter	Specification	Remark
Frequency Range	180~186MHz (8CH)	
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℃~+45℃	
Storage Temperature	-20℃~+60℃	
Relative Humidity	0%~90%	Non-condensing

Mechanical Specification

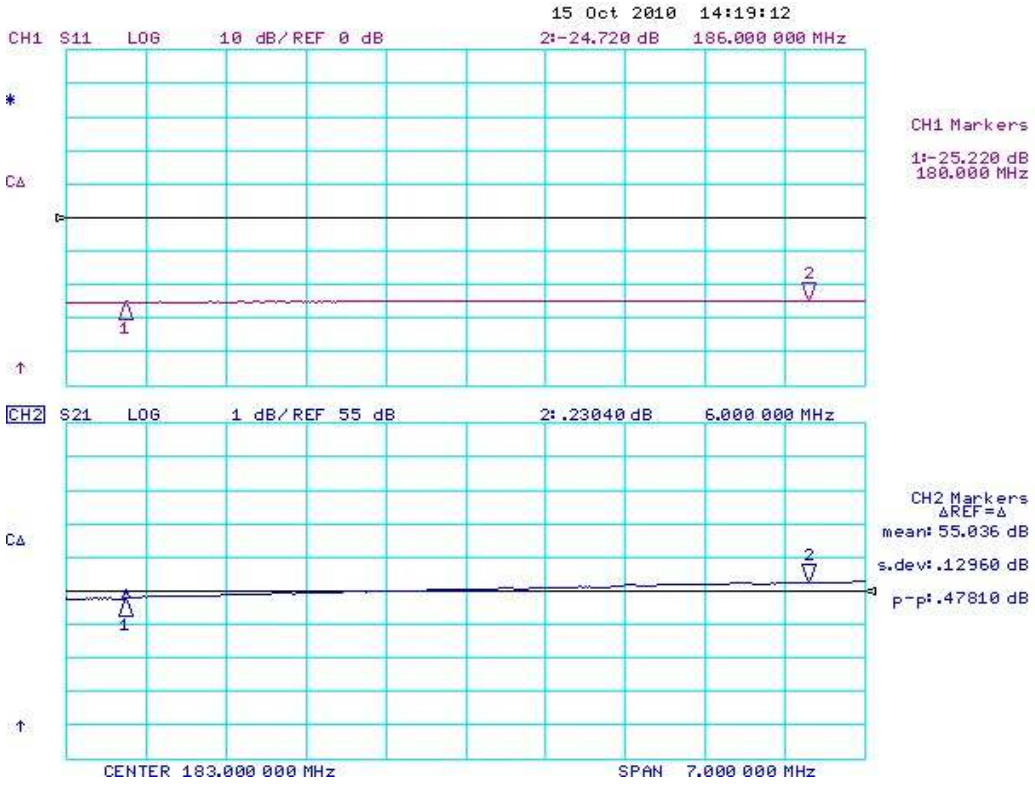
Physical Dimension : 302mm x 177mm x 40mm

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℃, 10mV/℃
	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℃±5℃ Auto Recovery@+70±5℃
	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



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