

250Wrms DAB/500W P-Sync VHF TV Amplifier

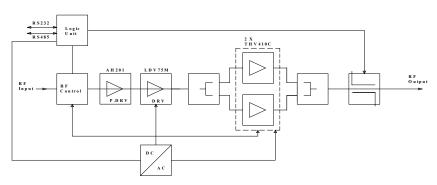
AV250-D amplifier embodies LD-MOS and TETRAFET technologies and is designed for both digital and analog applications. The unit is the state of the art in terms of easy assembly, reliability and performances. The complete unit can assure the compliance to all relevant international standards.

- 500Wps Out
- 250Wrms Out DAB
- BroadBand (170-230 MHz)
- Designed for OEM SKD sales
- Internal cabling free
- Easy maintenance without special tools
- RS232-RS485 interface
- Control software included
- Extremely strong mechanical structure

BLOCK DIAGRAM



This picture is a mere example, it does not bind the provided product



ELECTRICAL DATA

220Vac +15% -20% nominal
100-240Vac 50-60Hz for Pout up to 250Wrms
176-240Vac 50-60Hz for Pout over 250Wrms
1300W @500W Ps Black Field @200MHz (typ.)
1000W @250Wrms DAB@ 200MHz (typ.)
7.5 A max @ 220 V PF > 0.97 analog application
0 to +45 °C
Up to 90% (non condensing)
0 to 45 deg. ± -0.5 dB ¹
$56dB \pm 2dB$ nominal
Min. 700W (Typ. 800W)
Min16dB (Typ20dB)
Min18dB (Typ22dB)
No degradation
500W Ps IMD < -45dB Red Field Sound 1 –13dB; Sound 2 –
20dB (without precorrection)
700W sink compression < 1dB
250Wrms shoulder < -28dBc (without precorrection)
150W DVB-T shoulder <-30dBc (without precorrection)
800W IMD < -27 dBc

¹ WARM UP:

To achieve the stability vs temperature correct value when the equipment is cold, please wait 30 minutes at least after switching on.

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GR00337	Issue: 0 Date: 06/08/2003	Rev: 3 Date: December 2006	Pag. 1/6







THV410C (final amplifier)

LDV75M (driver)

MECHANICAL DATA AND INTERFACES

MECHANICAL DATA AND INTERFACES	
Dimensions	19" 3HU std 600mm depth ²
Weight	21 Kg.
RF in	N connector rear panel
RF out	7/16" connector rear panel
RF mon	SMA connector rear panel
RS232	D 9 poles front and rear panel
RS485	D 9 poles rear panel
Local Enable	Switch front panel
	Two-pole connector rear panel

REMOTE CONTROL

Enable	RF Enable ON/Stand By
GAIN (option)	Gain setting

READABLE DATA BY REMOTE COMPUTER OR CONTROL LOGIC UNIT (THROUGH RS232/RS485)

STATUS/ALARMS	NOTES
Enable	ON/STAND BY
RF Faults	ACTIVE if Gain < 6dB referred to nominal
PS Faults	ACTIVE if PS voltage absent
°C max	ACTIVE when RF Thermal Protection is ON
Pin max	ACTIVE when RF Overdrive Protection is ON
VSWR max	ACTIVE if VSWR max Protection is ON
I max	ACTIVE when Current is too high
MEASUREMENTS	
RF in	Input Power in mW (PS for analog, RMS for DAB)
RF out	Output Power in W (PS for analog, RMS for DAB)
RF DRV	RF Driver Output in W (PS for analog, RMS for DAB)
RF Heatsink Temperature	Temperature in °C
IDC Driver	Value in A
IDC Final Stage 1	Value in A
IDC Final Stage 2	Value in A
VDC	PS Output Voltage

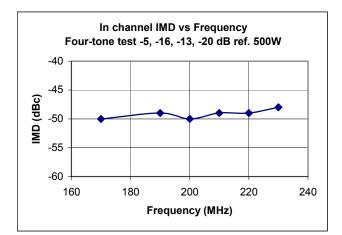
GR00337Issue: 0Rev: 3PaDate: 06/08/2003Date: December 2006Pa	ag. 2/6
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² See pag. 4

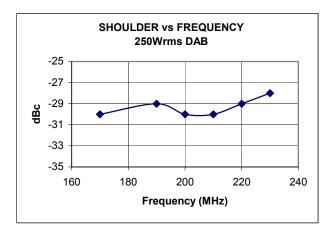


SELF PROTECTIONS

RF Thermal Protection	
Overdrive	Pin max must be set on the working channel with the used
	DAB or Analog signal
VSWR max	VSWR max must be set on the working channel with the used
	DAB or Analog signal
I max	



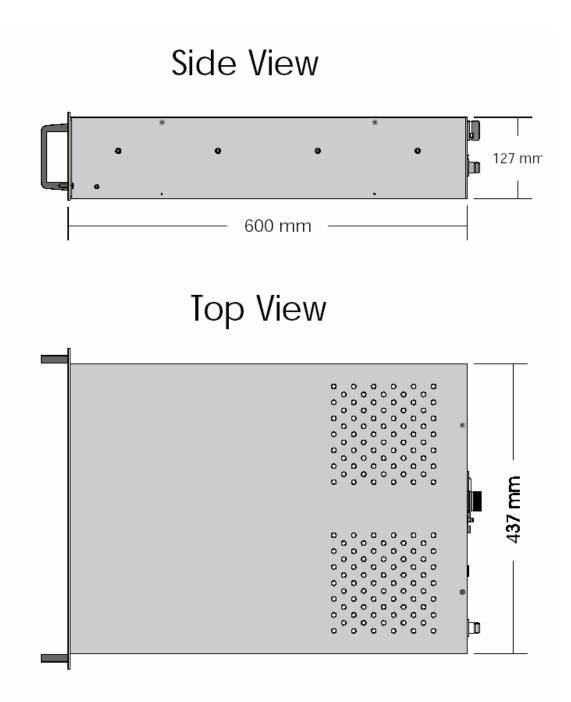
Without precorrection



Without precorrection

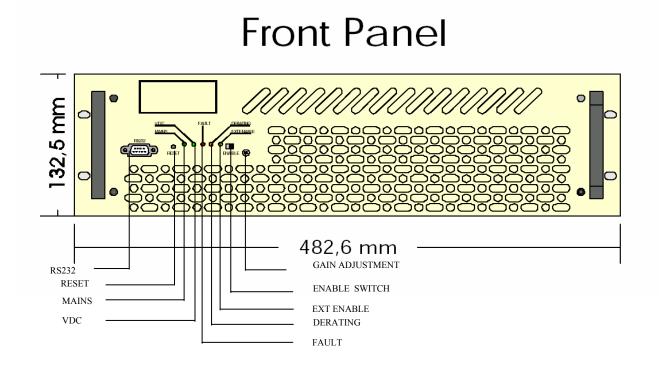
	GR00337	Issue: 0 Date: 06/08/2003	Rev: 3 Date: December 2006	Pag. 3/6
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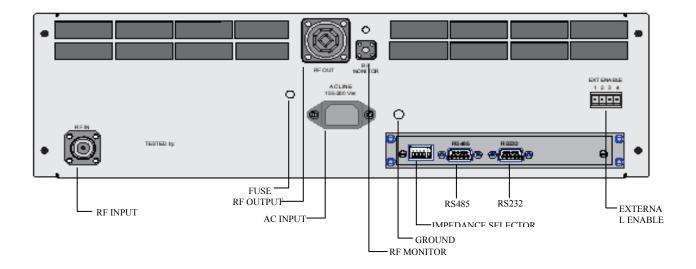


Date: 06/08/2003 Date: December 2006	GR00337	Issue: 0 Date: 06/08/2003	Rev: 3 Date: December 2006	Pag. 4/6
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Rear Panel



GR00337	Issue: 0	Rev: 3	Pag. 5/6
0K00337	Date: 06/08/2003	Date: December 2006	Fag. 5/6



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GR00337	Issue: 0	Rev: 3	Pag 6/6
UK00337	Date: 06/08/2003	Date: December 2006	Pag. 6/6