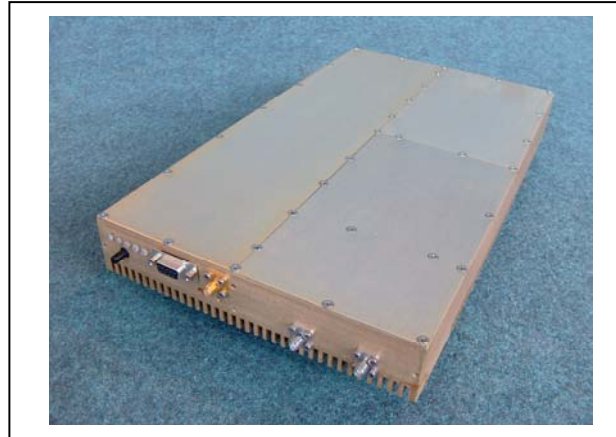


AU05-D/MOD_ 3-8 Wrms DVB-T UHF Amplifier

GR02011 is a full LD-MOS Broadcast Power Amplifier designed for digital signal repeaters and gap-fillers.. The unit is the state of the art in terms of easy assembly, reliability and performance. The complete unit can assure the compliance to all relevant international standards.

- Full LD-MOS Power Amplifier
- 3-8 Wrms Out DVB-T
- BroadBand (470-862 MHz)
- Internal cabling free
- Easy maintenance without special tools
- RS232-RS485 interface
- Measures and Thresholds auto-ranging at amplifier setting up
- Control software included
- Extremely strong mechanical structure



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

Electrical Data

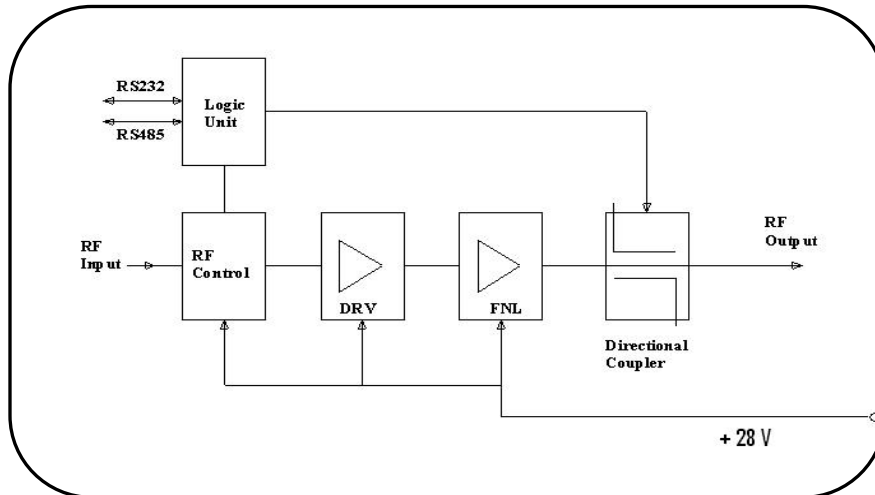
Voltage Supply	28 Vdc
Power Consumption	65W @ 5 Wrms DVB-T @650MHz (typ.)
Current Consumption	2.5 A typ. @ 28 Vdc digital application
Operating Temperature	0 to +45 °C
Humidity	Up to 90% (non condensing)
Gain	40dB nom.
Power Out (@1dB compression)	Min. 45W (Typ. 55W)
Input Return Loss	Min. -16dB (Typ. -20dB)
Output Return Loss	Min. -18dB (Typ. -20dB)
Load Mismatch (CW 10W F ₀ 860MHz VSWR=2:1)	No degradation
P _{out} DVB-T	up to 5 Wrms shoulder < -36dBc (without precorrection) typ. 8 Wrms shoulder < -36dBc (with precorrection) typ.

Mechanical data and Interfaces

Dimensions (WxDxH)	199x350x40mm
Weight	4 Kg.
RF in	SMA connector front panel
RF out	SMA connector front panel
RF mon	SMA connector front panel
RS232 or RS485	D 9 poles front panel
Local Enable	Switch front panel

Contact Res-Ingenium, +39 0763 316333 Fax +39 0763316002- or visit www.res-ingenium.com for a complete listing.

Block Diagram



Remote control

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

Readable data by remote computer or Control Logic Unit (through RS232/RS485)

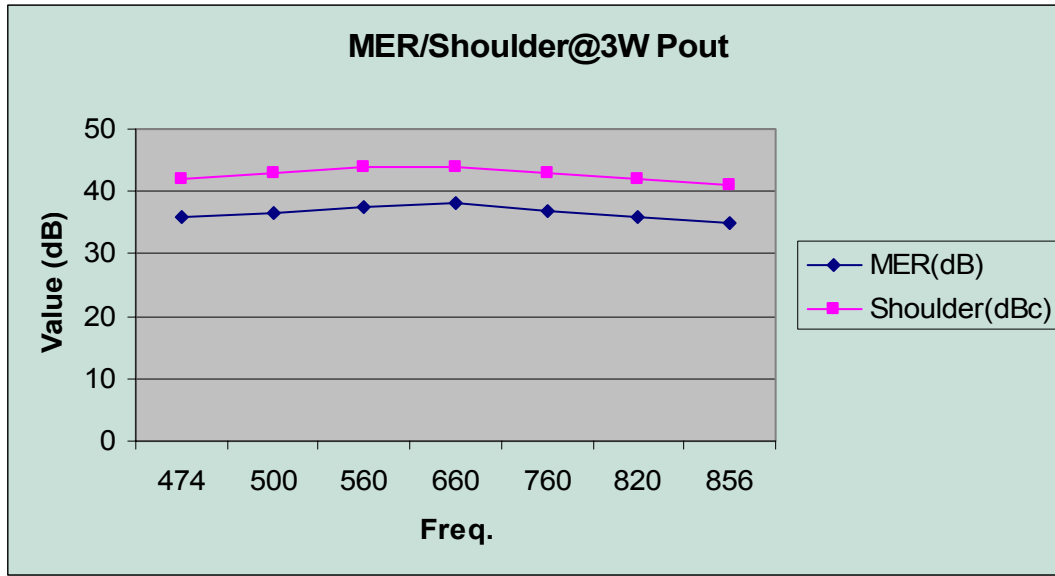
STATUS/ALARMS	NOTES
Enable	ON/STAND BY
RF Faults	ACTIVE if Gain < 6dB referred to nominal
°C max	ACTIVE when RF Thermal Protection is ON
Pin max	ACTIVE when RF Overdrive Protection is ON
VSWR max	ACTIVE if VSWR max Protection is ON
I max	ACTIVE when Current is too high
MEASUREMENTS	
RF in	Input Power in uW (RMS for DVB-T)
RF out	Output Power in W (RMS for DVB-T)
RF REF	Reflected Power in W (RMS for DVB-T)
RF Heatsink Temperature	Temperature in °C
IDC RF Section	Value in A
VDC	PS Output Voltage

Self Protections

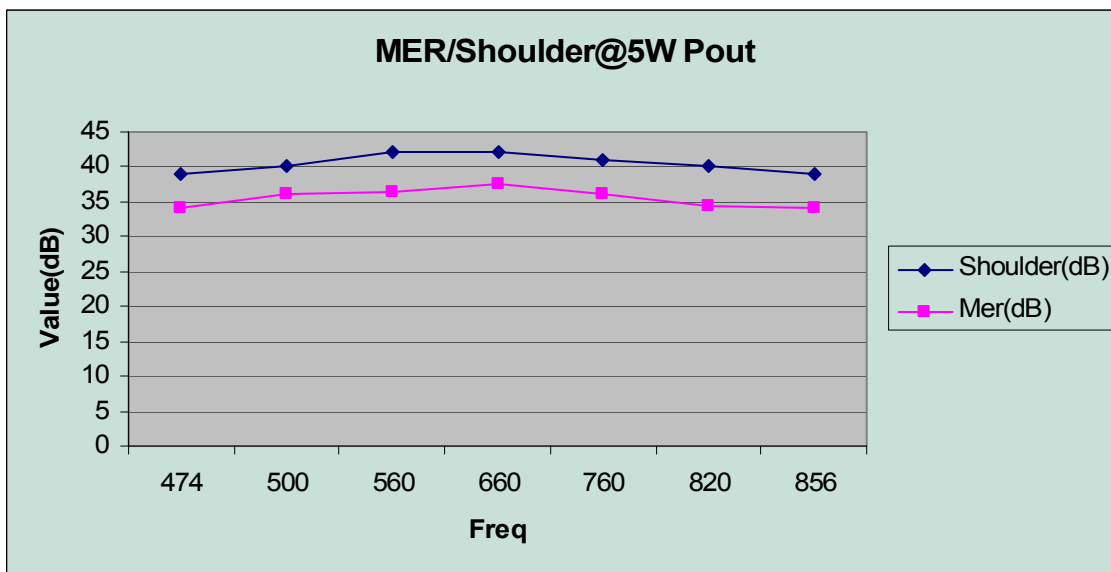
RF Thermal Protection	
Overdrive	Pin max must be set on the working channel with the used DVB-T
VSWR max	VSWR max must be set on the working channel with the used DVB-T
I max	

NOTE: all RF measures and protection thresholds automatically set up on the working frequency set by the user.

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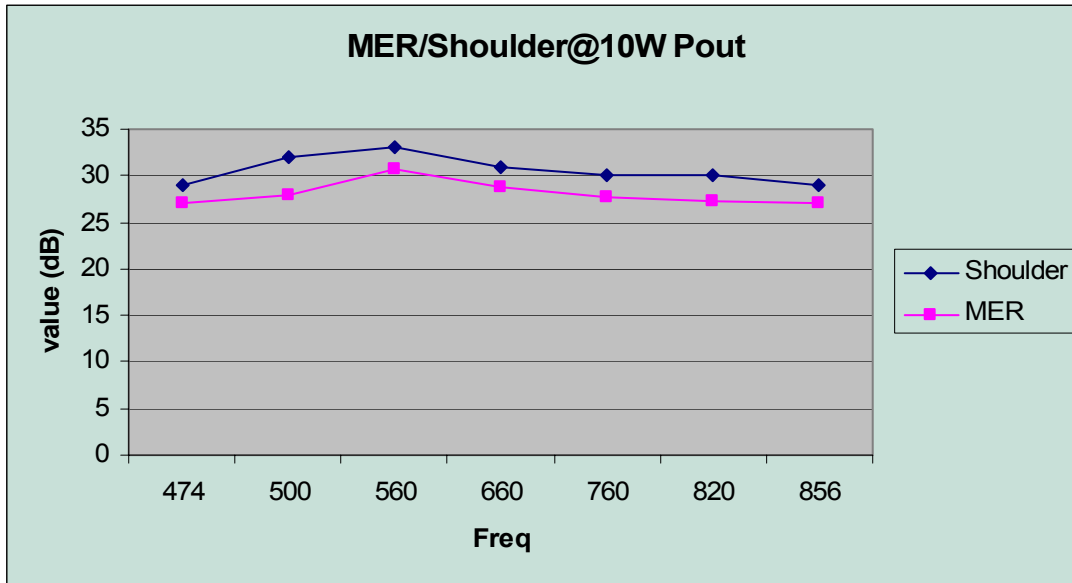


Without Precorrection



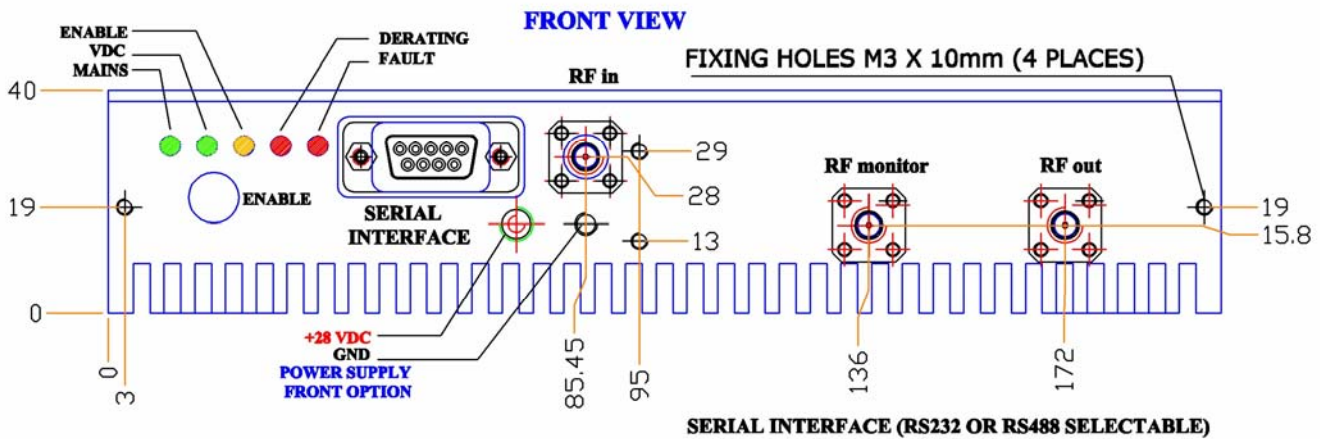
Without Precorrection

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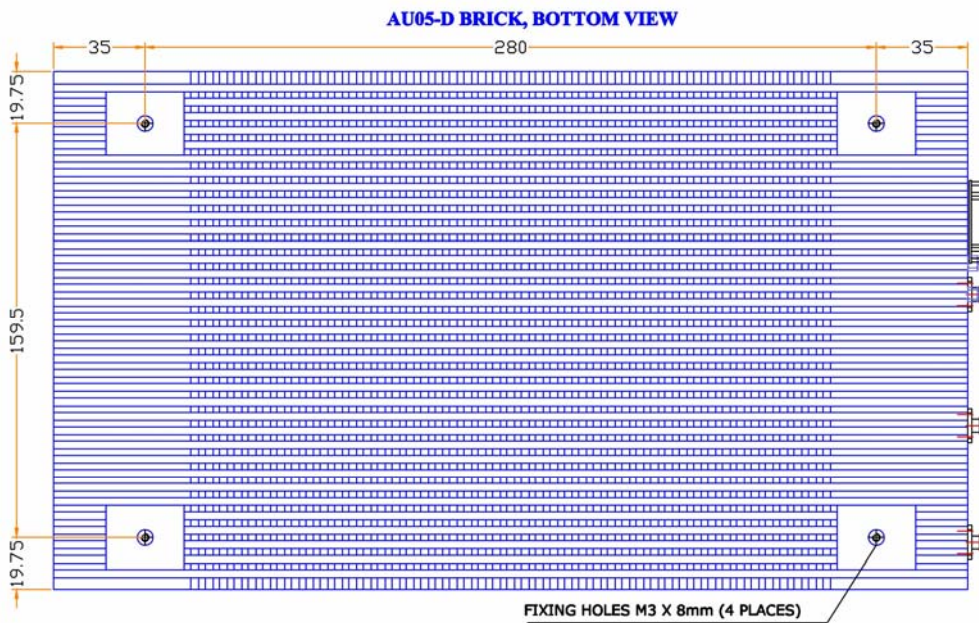
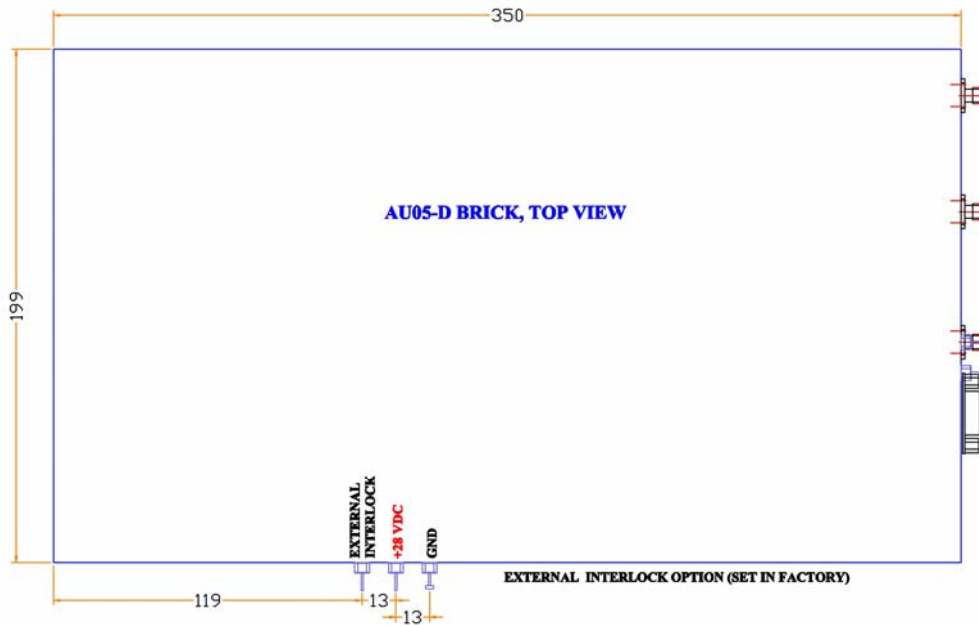


Without precorrection

FRONT VIEW



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