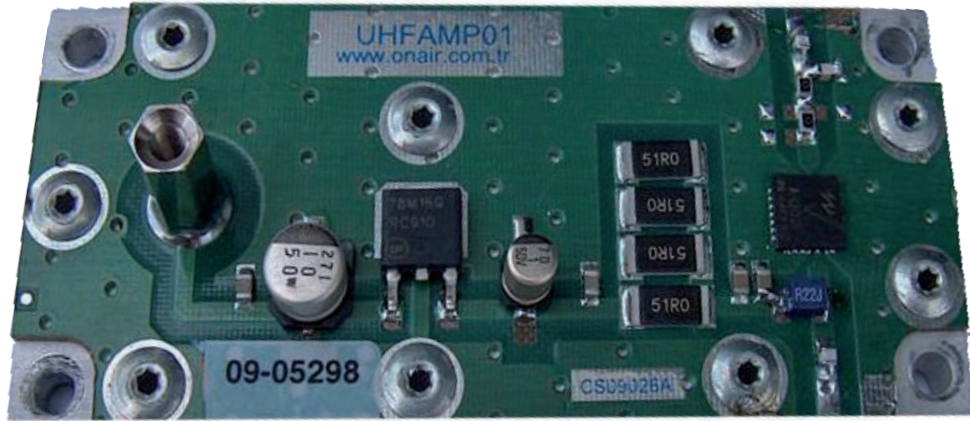




# UHFAMP01

## 1 W UHF PALLET AMPLIFIER



This power amplifier pallet has been design to cover the entire UHF TV band from 470 to 862 MHz Designed for digital applications; the UHFAMP01 is a low level amplifier stage to provide a 50mW with a very linear signal or 100mW @ typ. 45dBc of shoulder.

### Technical Specification Summary

Frequency Range	470-862MHz	Typ. Gain	17 dB
P1dB	1 W	Typ. Efficiency	Typical Class A
Analogue TV	N/A	Temperature Range	-10 to +75 °C
DVB	100 mWrms	Max VSWR	3:1
DTV		Working Class	A
Dual tone		Supply Voltage	28V
Devices: MMIC: AH202, 1W			

### Electrical Specifications

Parameter	Min	Typ.	Max	Unit	Notes
Operating Frequency Range	470		862	MHz	
P1dB		1		W	CW Mode
Power		1		Wpep	2 tones , 100kHz spacing (-30 dBc)
IMD3		-30		dBc	2 tones , 100kHz spacing (1 Wpep)
Power Input		20		mW	CW
Gain	16.8	17		dB	
V Supply		28		Vdc	
Supply Current			330	mA	
Input Return Loss	-12	-15		dB	
F2 Second Harmonic		-35	-25	dBc	
F3 Third Harmonic		-45	-30	dBc	
Baseplate Temp	-10		75	°C	

### Mechanical Specifications

Physical Dimensions (LxWxH)	78mm x 35mm x 6mm / 3,07" x 1,38" x 0,24"
Weight	50g. / 0,11 Pounds

### ABSOLUTE Maximum Ratings

Output Power	1 W
Input Power	20 mW
Operating Voltage	28 Vdc
Stable Operations	28 - 30 Vdc
Supply Current	330 mA
VSWR	3:1
Storage Temp.	-20 / +80 °C
Base Plate Temp.	75°C



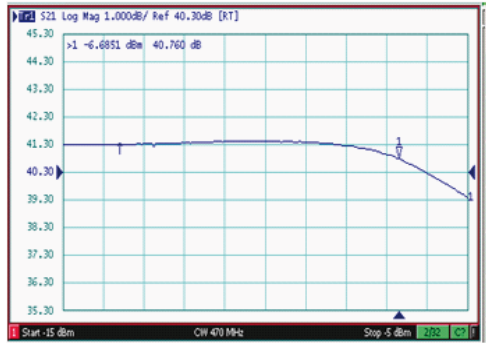
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## 1 W UHF PALLET AMPLIFIER

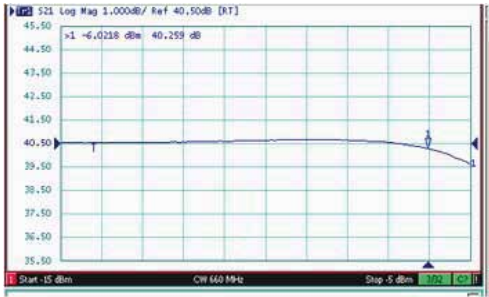
Plot 1: Amplitude vs. frequency



Plot 2: AM/AM @ 470MHz



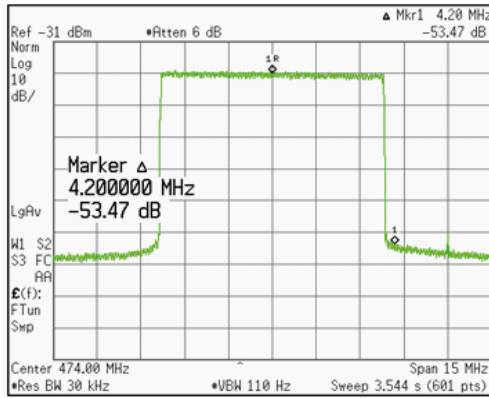
Plot 3: AM/AM @ 660MHz



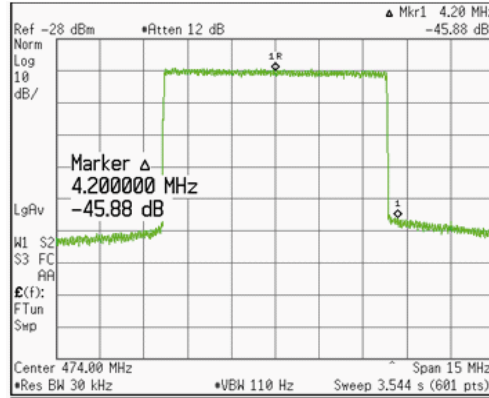
Plot 4: AM/AM @ 660MHz



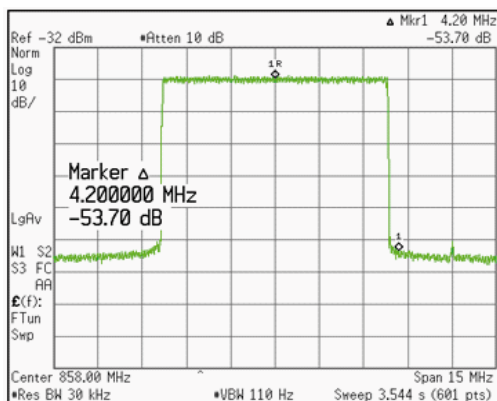
Plot 5: DVB-T alla freq. Di 474 MHz



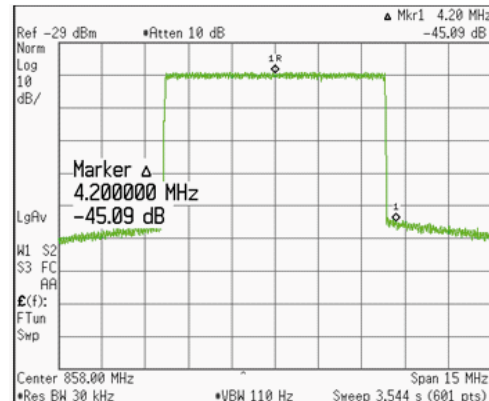
Plot 6: DVB-T alla freq. Di 474 MHz 100mW



Plot 7: DVB-T alla freq. Di 474 MHz



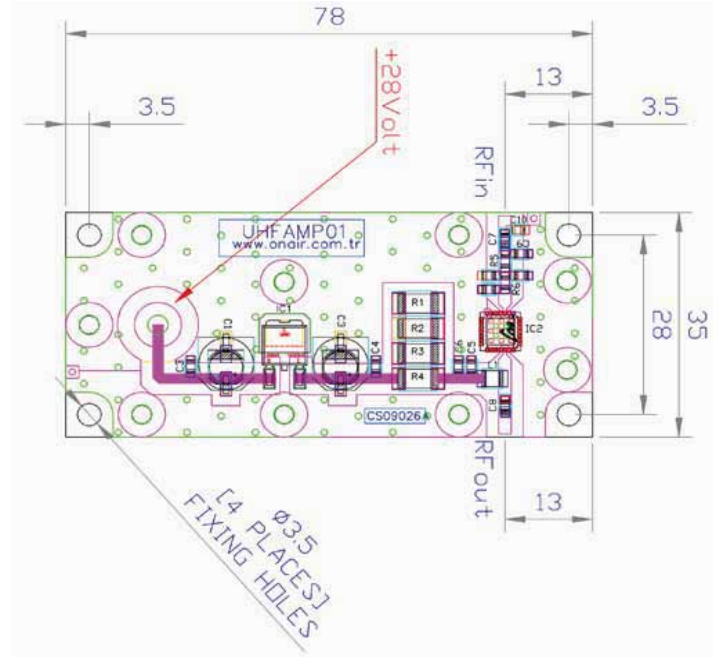
Plot 8: DVB-T alla freq. Di 474 MHz





# UHFAMP01

## 1 W UHF PALLET AMPLIFIER



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