



AMP-4754H

TV UHF LINEAR AMPLIFIER

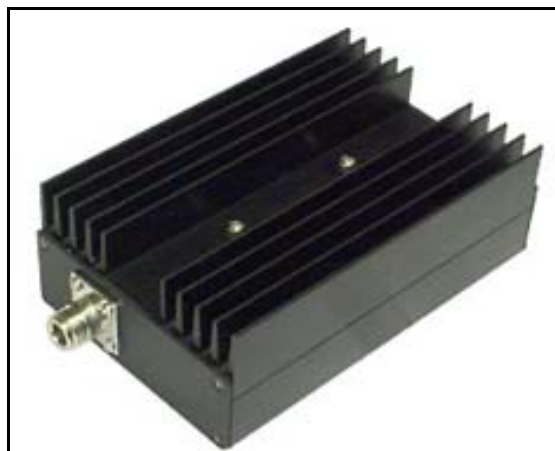
60 W IN A CLASS WITH

ADJUSTABLE POWER OUTPUT

FOR TV CHANNELS 14-26 IN UHF RANGE NTSC

This is a high quality professional 25 W TV linear amplifier that requires minimum driving input of 15 m W for 60 W RF output power / 12.6 V DC. This TV linear amplifier works from 470 MHz -540 MHz and doesn't require any tuning or adjusting. This amplifier has built-in UHF filter. Power supply is 12 V - 14 V / 8 A. Gain is 27 dB. Input / Output 50 ohms impedance. It is excellent for low power TV stages in UHF-L band (I). This amplifier is excellent for TV applications in A class with maximum 60 W RF power in linear class CW.

Dimensions: 6.0" X 4.0" X 2.0".



Technical Specifications	
BATTERY POWER	12 V - 14 V
RF POWER	60 W CW
CURRENT CONSUMPTION	8 A
RF IN/OUT	50 ohms
INPUT POWER	15 mW- 50 mW max
FREQ. RANGE:	470-540 MHz (NTSC channels 14-26)
HIGH GAIN	27 dB / 60 MHz
SIZE:	6.0" X 4.0" X 2.0"
OPERATION: WIDEBAND OPERATION	WIDEBAND
CLASS	LINEAR AB/A
POWER OUT	ADJUSTABLE

Electrical Specifications					
PARAMETER	MIN.	TYP.	MAX	UNITS	NOTE
FREQUENCY	470		862	MHz	
P1DB	65	65	70	W	
POWER		60		W _{pep}	2 tones, 100 kHz spacing (-27 dBc)
RF power digitally modulated (COFDM or DVB-T mode)	10	12		W	
POWER INPUT		50		mW	
GAIN	26	26		dB	
V SUPPLY	12	12	12.6	V _{dc}	
DRAIN CURRENT			8	A	
INPUT RETURN LOSS		-2.9		dB	See note 1
PHASE VARIATION		+/- 5%			Unit to unit
GAIN VARIATION			+/-1.5	dB	
F2 SECOND HARMONIC		-38	-25	dBc	
F3 THIRD HARMONIC		-49	-30	dBc	
BASE PLATE TEMP.	-10		+75	C	
VIDEO PARAMETER					
ANALOG POWER (ATV)				W _{ps}	Common amplification
DIGITAL POWER (DVB)				W _{rms}	
M.E.R (DVB)				dB	
SHOULDERS (DVB)				dBc	At +/- 4.2 MHz

Physical Dimensions (L x W x H): 6.0" x 3.0" x 2.0"
Weight: 985 g / 2 lb

Note 1: The In / Out return loss value is low due to push-pull single stage configuration of this amplifier (without Hybrid) It is recommended to put a 4-5 dB attenuator in input in order to avoid a ripple of the gain in the final equipment.

**Note that RF power stated is in CW mode, if used with DVB-T or COFDM modulation the final RF power output is lower. Please see the table above.
This amplifier requires an extra cooling surface or an external fan.**