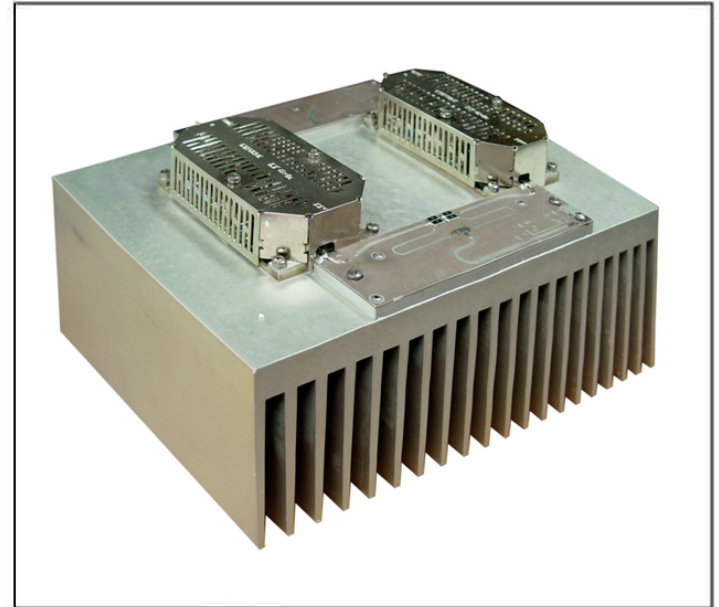
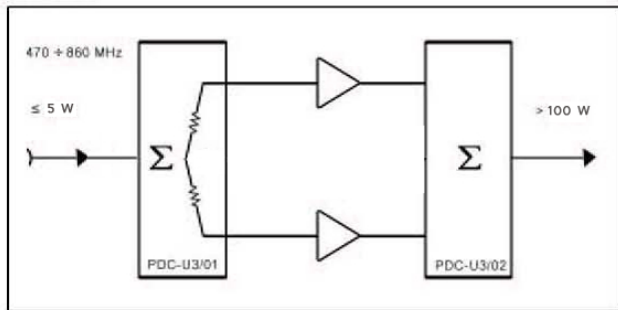


# AMP-100WA

## 100W CLASS A UHF LINEAR AMPLIFIER

Designed for TV transposers and transmitters, this amplifier incorporates micro strip technology and discrete linear push-pull transistors with gold metalization and diffused emitter ballast resistors to enhance ruggedness and reliability.

- 470 ÷ 860 MHz
- 27 Volts
- Input/Output 50 Ω
- Pout: 100W
- Gain: 9.5 dB min
- Class A
- Driving Input Power: 5W



### ABSOLUTE MAXIMUM RATINGS (T case = 25 °C)

Symbol	Parameter	Value	Unit
Vs	Collector Voltage Supply	27.5	V dc
Is	Supply Current	28	A dc
Tstg	Storage Temperature Range	-30 +100	°C
Tc	Operating Case Temperature	-20 +55	°C

### ABSOLUTE MAXIMUM RATINGS (T case = 25 °C)

Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typ.	Max	
BW	Bandwidth	Pout = 70 W (CW)	470		860	MHz
Gp	Power gain	Pout = 70 W , 3 tones		9.5		dB
Pout - 1 dB	Power output@ 1 dB compression	Reference to Pout = 100 W	75	100		W
Icc	Supply Current	Pout = 100 W	-	18	-	A
Irl	Input return loss	Pout = 100 W	14	18	-	dB
Orl	Output return loss	Pout = 100 W	14	18	-	dB
Ψ	Load mismatch	Pref = 75 W, 3 tones, f = 860MHz, Load VSWR = ∞:1, alla phase angles	No degradation in Pout			
Gr	Gain Flatness	Pref = 100 W, 3 tones, BW: 470-860 MHz		±0.5	±0.7	dB
Imd1	Intermodulation Distortion -3 tones	Vision carrier: -8 dB f = 860MHz Sound carrier: -10 dB Vs=26V Sideband carrier: -16 Db Pref=100W	-	-52	-50	dBc
Imd2	Intermodulation Distortion -3 tones	Vision carrier: -8 dB f = 860MHz Sound carrier: -10 dB Vs=26V Sideband carrier: -16 Db Pref=100W	-	-54	-	dBc