



DESCRIPTION

The P200-VHF-L-18 is an integrated linear amplifier designed for the television integrator. Providing a minimum of 200W Pk Sync linear power at Channel 6 or 165W Pk Sync linear power at Channel 2, this is the perfect amplifier for any low band VHF transmitter.

- No RF assembly or circuit tuning
- 200 watts of linear output power at channel 6
- 18dB typical gain at channel 6
- Combined video and aural at full rated power
- Modular construction for ease of integration

TECHNICAL SUMMARY

Frequency Range:	50 to 88 MHz
P1dB:	225 Watts CW
Class:	AB
Supply Voltage:	32 V
Gain:	18 dB
Efficiency:	42 %
Temperature Range:	0 to +70 °C
Max VSWR:	5 : 1

ELECTRICAL SPECIFICATIONS

Parameter	Min	Typ	Max	Units	Notes
Frequency	50		88	MHz	
P1dB	200	225		W, CW	
Linear Power Out	165	200		W	
IMD3	-40			dBc	For 2 tones, 1MHz spacing, 165W PEP
Power Input		3		W, CW	
Gain		18		dB	
Vsupply		32		V, DC	
Drain Current		9		A, DC	
Input VSWR		1.2:1	1.5:1		
Insertion Phase Variation		±5		°	Unit to unit
Gain Variation		±1		dB	Unit to unit
F2 Second Harmonic		-30		dBc	
F3 Third Harmonic		-12		dBc	
Operating Temperature	0		+70	°C	
Physical Dimensions					2.0" x 4.0" x 1.5"

All specifications valid for 50 Ω output load, $V_{sup} = +32VDC$, $I_{dq} = 0.8A$

ABSOLUTE MAXIMUM RATINGS

Parameter	Value	Units	Notes
Maximum Operating Voltage	34	V, DC	
Stable Operating Voltage	26 to 34	V, DC	
Maximum Bias Current	30	A, DC	
Maximum Drain Current	11	A, DC	
Load Mismatch Survival	5:1		
Storage Temperature	-65 to +150	°C	
Max Operating Baseplate Temperature	+70	°C	

FEATURES

- Temperature compensated bias
- Amplifier disable
- Current sense
- Connectorized power