

# RF Power Amplifier

# RF147 - 100

This solid state power amplifier is designed for reliable, trouble-free service. It operates in a class A/AB and includes RF protection circuits, cooling installations and 230 V AC power supply. The amplifier is accommodated in a 19" system housing.

### Features :

- \* 120 Watts saturated output power
- \* 10 dB minimum gain
- \* by pass switch
- \* Meter
- \* Temperature protection

### Applications :

- \* RF booster

### Specifications

Characteristics	Data	Units
Frequency range	146 - 148	MHz
RF output power CW		
Typ.	120	W
Min	100	W
Class	A / AB	
Power gain min	10	dB
Flatness	+/-2,5 dB	dB
Input power for rated output power	10	W
Max. input power	20	W
In / Out impedances nom.	50	Ohms
Input VSWR	2 : 1	
Load VSWR for rated output power	up to 1.7 : 1	
VSWR mismatch	5 : 1 @ 100 W	
Protection circuits	Over temperature	
Harmonics typ.	-20	dBc
Spurious typ.	-60	dBc
Modulation capability	100	%
Noise Figure typ.	10	dB
Intercept point 3 rd Order typ.		dBm
RF connectors	N female	
Cooling	Forced air (self-contained fans)	
Operating temperature Range	0 °C ... + 40	° C
Power Supply	230 AC +/- 10 % ,47-63 Hz	V
Dimensions (W x L x H)	3 U p 360 mm	
All data at room temperature + 22 °C, into 50 Ohms, subject to change without notice		