

# RF Power Amplifier

# RF10162-500 P

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

### Features :

- \* 600 Watts saturated output power
- \* 57 dB minimum gain
- \* Electronic Attenuator external electrically controlled , dynamic range 15 dB min
- \* Power indicator and status via **RS232 or IEEE488**
- \* VSWR protection by power reduction
- \* Temperature protection

### Applications :

- \* medical NMR

### Specifications

Characteristics	Data	Units
Frequency range	10 - 162	MHz
RF output peak power		
Typ.	550	W
Min	500	W
Class	A during the pulse	
Power gain min	57	dB
Gain dynamic range	15	dB
Gain linearity over dynamic range	+/- 2,5 dB	dB
Off-state power spectral density	-150	dBm/Hz
Max. input power	0	dBm
In / Out impedances nom.	50	Ohms
Input VSWR	1,5 : 1	
Load VSWR for rated output power	up to 1.8 : 1	
VSWR mismatch	infinite	
Protection circuits	Over temperature, short, open	
Harmonics typ.	-15	dBc
Gating signal	TTL	
Pulse width	1 to 20	mS
Duty cycle	10	%
Rise and fall time	< 500	µS
RF connector input	N female	
RF connector output	N female	
Cooling	Forced air	
Operating temperature Range	0 °C ... + 40	° C
Power Supply	235 AC +/- 10 % ,47-63 Hz	V
Dimensions (W x L x H)	6 U 19" Rack 490 x 460	mm
All data at room temperature + 22 °C, into 50 Ohms, subject to change without notice		