

RF Power Amplifier

RF100140 - 1000

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 :

- * 1200 Watts saturated output power
- * 60 dB minimum gain
- * Water cooling
- * Meter
- * Temperature protection
- * RS232 or RS485 or IEEE in option

Applications :

- * RF links
- * Test Bench
- * N M R, E M I
- * Instrumentation

Specifications

case : 2 x RAC012-03 + RAC009-01

Characteristics	Data	Units
Frequency range	100 - 140	MHz
RF output power CW		
Typ.	1100	W
Min	1000	W
Class	A / AB	
Power gain min	60	dB
Flatness	+/- 2,0 dB	dB
Input power for rated output power	0	dBm
Max. input power	13	dBm
In / Out impedances nom.	50	Ohms
Input VSWR	2 : 1	
Load VSWR for rated output power	up to 1.7 : 1	
VSWR mismatch	infinite @ 1000 W power decrease	
Protection circuits	Load VSWR, 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	Water cooling	
Operating temperature Range	0 °C ... + 40	° C
Power Supply	230 AC +/- 10 % ,47-63 Hz	V
Dimensions (W x L x H)	RAC012-03 16 U p 460 mm	
All data at room temperature + 22 °C, into 50 Ohms, subject to change without notice		