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MODEL 4085

2.7 - 2.9 GHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4085 is a 200 Watt band-specific amplifier that covers the 2.7 – 2.9 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.7 – 2.9 GHz
2	Saturated Output Power	200 Watts typical
3	Small Signal Gain	+55 dB min
4	Small Signal Gain Flatness	± 1.25 dB max
5	IP ₃	+61 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 200 Watts
8	Spurious Signals	< -60 dBc typical @ 200 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	2000 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	19" x 5.25" x 20"
16	Weight	50 lb. max
17	RF Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ VSWR protection

CIRCUIT INDICATIONS

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset



RE Model Shown

ORDERING MODELS

- ◇ RE - Rear Panel model with RS232, IEEE, & Ethernet
- ◇ FE - Front Panel model with RS232, IEEE, & Ethernet