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MODEL XRF689FE
1.71 – 2.17 GHz
250 WATTS
POWER RF AMPLIFIER

**Solid State
 Band-Specific High
 Power RF Amplifier**

The XRF689 is a 250 Watt band-specific amplifier that covers the 1.71 to 2.17 GHz frequency range. This 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.

CIRCUIT PROTECTIONS

- ◇ Infinite Load VSWR
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

	Parameter	Specification @ 25 °C
Electrical		
1	Frequency Range	1.71 - 2.17 GHz
2	Saturated Output Power	250 Watts min @ 1.8 to 2.17 GHz 150 Watts min @ 1.71 to 1.8 GHz
3	Control	RS232
4	Small Signal Gain	55 dB min
5	Small Signal Gain Flatness	± 0.75 dB max
6	Input VSWR	2:1 max
7	Max Load VSWR	Infinite (No Damage)
8	Harmonics	-20 dBc typical @ 200 Watts
9	Spurious Signals	-60 dBc typical @ 200 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2500 Watts max
12	AC Input	100 – 240 VAC, single phase
13	Nominal RF Input Power	0 dBm
14	RF Input Overdrive	10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM
Mechanical		
16	Dimensions	19" x 8.75" x 20"
17	Weight	80 lb. max
18	RF Connectors	Type-N
19	Configuration	Front Panel Connectors
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
22	Operating Temperature	0 °C to +50 °C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

