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MODEL 7005
80 - 6000 MHz THREE CHANNEL
50 to 280 WATTS
HIGH POWER RF AMPLIFIER

**Solid State
 Broad Band Three
 Channel High Power
 RF Amplifier**

The 7005 is a three channel amplifier that covers the 80 – 6000 MHz frequency range. Each channel can transmit independently and includes its AC, RF and IEEE-488 GPIB interface .

The 7005 is based on OphirRF standard legacy proven systems 5072FE-001, 5153FE with coupling port, and 5193FE-001.

CIRCUIT PROTECTIONS

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

INDICATIONS

- ◇ Thermal Fault
- ◇ Forward detected power
- ◇ Reflected detected power
- ◇ Forward sample port

CONTROL

- ◇ Standby mode
- ◇ Gain Adjustment (VVA)
- ◇ Automatic Leveling Circuit

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	Channel 1 80 to 1000MHz Channel 2 1000 to 2500 MHz Channel 3 2500 – 6000 MHz
2	Saturated Output Power	Channel 1 280W typical Channel 2 80W typical Channel 3 50W typical
3	Power Output @ 1dB Comp.	Channel 1 150W typical Channel 2 60W typical Channel 3 30W typical
4	Nominal input power drive for rated output power	0 dBm
5	Gain Flatness	+/- 2.5 dB max with no ALC +/- 1 dB max with internal leveling
6	IP ₃	Typical +8dB above P1dB
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	> -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	Channel 1 4000W max Channel 2 1200W max Channel 3 800W max
12	AC Input, each Channel has a separate AC connector	Channel 1 3 phase, 208V Channel 2 Single phase 110-220V Channel 3 Single phase 110-220V
13	RF Coupling port for each Channel	Channel 1 53dB below peak power Channel 2,3 43dB below peak power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	42" x 24" x 30" (H x W x D) max
17	Weight	350 lb. max
18	Connectors	Type-N
19	User Interface	IEEE-488 GPIB
20	Front panel interface	Display, RF input/output connectors, AC On/Off Switch, Coupling port
21	Rear Panel Interface	AC connectors, IEEE-488 connectors
22	Grounding	Chassis
23	Cooling	Internal Forced Air
Environmental		
24	Operating Temperature	0° C to +50° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck Transport