

MODEL 7005
80 - 6000 MHz THREE CHANNEL
50 to 300 WATTS
HIGH POWER RF AMPLIFIER

Solid State
Broadband 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 Ophir^{RF} standard legacy proven systems 5226, 5253FE and 5193FE.

. Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability, Like all OPHIR^{RF} amplifiers, the 7005 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	Channel 1 80 to 1000MHz Channel 2 700 to 2500MHz Channel 3 2000 to 6000MHz
2	Saturated Output Power	Channel 1 300W Minimum Channel 2 80W Minimum Channel 3 50W Minimum
3	RF Input	0dBm Nominal For Rated Power
4	Gain Flatness	+/- 2.5 dB max with no ALC +/- 1.0 dB max with Internal Leveling
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	Ch 1 208-240VAC, 1Ø single Phase
11	AC Input Power	Channel 1 4000W max Channel 2 1200W max Channel 3 800W max
12	RF Coupling port for each Channel	Channel 1 53dB below peak power Channel 2,3 43dB below peak power
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	Class A
Mechanical		
15	Dimensions	42" x 24" x 30" (H x W x D) max
16	Weight	250 lb. max
17	Connectors	Type-N
18	User Interface	Ethernet, RS-232, IEEE-488 GPIB
19	Front panel interface	Display, RF Input/Output Connectors AC Input/Output Switch, Coupling port
20	Rear panel interface	AC Connectors, IEEE-488 Connector
21	Grounding	Chassis
22	Cooling	Internal Forced Air
Environmental		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

ORDERING MODELS

- ◇ RE _ Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◇ FE _ Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◇ R _ Rear RF Connector model
- ◇ F _ Front RF Connector model



Specifications subject to change without notice



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FRONT PANEL CONTROLLER FEATURES (*Optional*)

- ◇ Forward Power Monitoring
- ◇ Reflected Power Monitoring
- ◇ Gain Control (20 dB dynamic range of adjustment)
- ◇ Fault Status
- ◇ Full Protection Of any VSWR Condition, Open or Short, into any Phase Angle
- ◇ Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
- ◇ Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
- ◇ Standby/Enable Control
- ◇ Front Panel Display for easy viewing of System Status Locally
- ◇ Keypad buttons for full local control

CIRCUIT CONTROL (*WITH FRONT PANEL CONTROLLER*)

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 20dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

CIRCUIT INDICATIONS (*WITH FRONT PANEL CONTROLLER*)

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

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Open or Short VSWR Conditions (*With Front Panel Controller*)

RFPA SYSTEM OPTIONS

- ◇ Switched Filter Bank
- ◇ Input Power Requirements
- ◇ Ruggedized Version
- ◇ Cabinet Requirements
- ◇ Outdoor Version
- ◇ Sample Ports
- ◇ Racking Options
- ◇ Many More!
- ◇ **Consult Factory with Specific Requirements**



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