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**MODEL 4071**  
**1.75 – 1.85 GHz**  
**500 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 4071 is a 500 Watt broadband amplifier that covers the 1.75 to 1.85 GHz frequency range. This amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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. The 4071 comes with an extended multiyear

	<u>Parameter</u>	<u>Specification @ 25 °C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1.75 - 1.85 GHz
2	Saturated Output Power	500 Watts min
3	Output Power @ 1 dB Comp.	300 Watts min
4	Gain @ 500 Watts	57 dB min
5	Small Signal Gain Flatness	± 0.75 dB max
6	Input/Output VSWR	2:1 max
7	Max Load VSWR	Infinite (no damage)
9	RF Input	+10 dBm max
10	Harmonics	-20 dBc typical @ 300 Watts
11	Spurious Signals	< -60 dBc typical @ 300 Watts
12	Input/Output Impedance	50 Ohms nominal
13	Class of Operation	A/AB
14	RF Input Signal Format	CW/AM/FM/PM/PULSE
15	AC Input Power	5 kVA max
16	AC Input Voltage	208 ± 10% VAC, single phase
<b><u>Mechanical</u></b>		
17	Dimensions (W x H x D)	21.1" x 23.4" x 25.5"
18	Weight	200 lb. Max
19	Connectors	Input: Type-N Output: 7-16 DIN
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
22	Operating Temperature	0 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

**OPHIR<sub>RF</sub> INC. PROPRIETARY AND CONFIDENTIAL INFORMATION**

**CIRCUIT PROTECTIONS**

- ◇ Thermal Overload @ 80 °C
- ◇ Over Current
- ◇ Over Voltage

**INCLUDED FEATURES**

- ◇ LCD Digital Display
- ◇ IEEE-488 Interface
- ◇ Automatic Level Control
- ◇ Rear Panel RF Connectors  
Input N Female  
Output 7/16" DIN