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MODEL 7021
20 - 6000 MHz
1.5 to 5 WATTS
BANDED POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 7021 is a multi channel broadband system that covers the 20 - 6000 MHz frequency range with a single RF input and Single RF output port.

This integrated system provides 1.5W to 5W power as specified in the spec for any selected frequency range.

The system includes RF high power switches controlled by the system controller. The RS232/Ethernet and/or Front panel key-pad provides full control and reduces the power consumption to the minimum by shutting down the un-selected channel.

The System is configured in a Rear panel Connectors configuration.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	20 - 6000 MHz
2	Saturated Power Output	4 Watts typ. @ 20 to 1000 MHz 1.5 Watts min @ 1000 to 2000 MHz 5 Watts min @ 2000 to 6000 MHz
3	Nominal RF drive for rated power	0 dB typ.
4	Input VSWR	2:1 max
5	Harmonics	-15 dBc typ.
6	Spurious Signals	< -60 dBc typical
7	Temperature Protection	Baseplate above 80° C
8	AC Power Consumption (one channel transmits)	500W
9	AC Power Input	100-240VAC, 1Ø single Phase
10	Maximum RF Input	10 dBm max
11	Antenna Switching time	100mS max
<u>Mechanical</u>		
12	Dimensions	19" x 26" x 5.25"
13	Weight	50 lb. max
14	Connectors	Type-N
15	Grounding	Chassis
16	Cooling	Internal Forced Air
<u>Environmental</u>		
17	Operating Temperature	0° C to +50° C
18	Operating Humidity	95% Non-condensing
19	Operating Altitude	Up to 10,000' Above Sea Level
20	Shock and Vibration	Normal Truck transport

Specifications subject to change without notice

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ Temp Fault
- ◇ Band Selection

CIRCUIT INDICATIONS

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

CIRCUIT PROTECTIONS

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

