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## MODEL 7028

**10KHz - 1000 MHz  
25 WATTS  
BANDED POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 7028 is a multi channel broadband system that covers the 10KHz – 1000 MHz frequency range with 25 watts of Saturated Power minimum.

This integrated system provides power across two separate, overlapping bands; 10KHz to 200MHz and 20-1000MHz frequency range.

The system includes RF high power switches controlled by the system controller. The RS232/Ethernet and/or Front panel keypad provides full control of the Antenna interface and reduces the power consumption to the minimum by shutting down the unselected channels.

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<sub>RF</sub> amplifiers, the 7028 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	10Khz – 1000 MHz <i>Band I: 10KHz–200MHz</i> <i>Band II: 20-1000MHz</i>
2	Saturated Power Output	25 Watts Minimum
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)	300 Watts maximum
9	AC Power Input	100-240VAC, 1Ø single Phase
10	Maximum RF Input	10 dBm max
11	Antenna Switching time	100mS max
<b><u>Mechanical</u></b>		
12	Dimensions	19" x 5.25" x 20"
13	Weight	48 lb. max
14	Connectors	Type-N
15	Grounding	Chassis
16	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
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



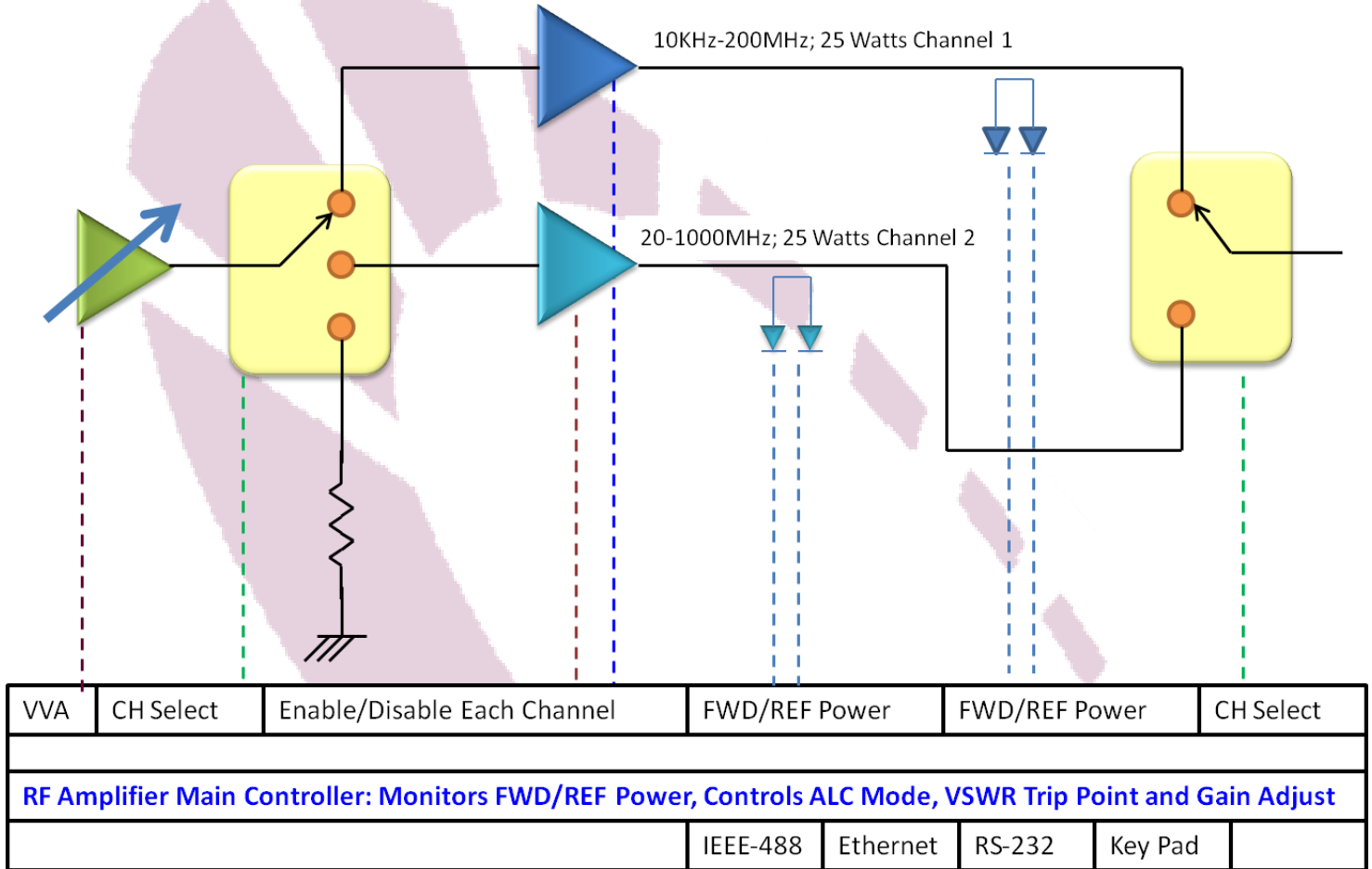
**Rear Panel RF Connectors (RE) Shown**



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### CIRCUIT INDICATIONS

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

### CIRCUIT CONTROL

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

### CIRCUIT PROTECTIONS

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