5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 7027

80 - 2,000 MHz
150 WATTS P-1dB
BANDED POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 7027 is a multi channel broadband amplifier system that covers the 80 – 2,000 MHz frequency range with 150 watts of P-1dB minimum for the band.

This integrated system provides power across two separate bands 80 to 1,000 MHz and 1,000 to 2,000 MHz frequency range. This unit incorporates a unique RF Relay System to allow a single RF Input and a Single RF Output.

The system includes RF high power switches controlled by the system controller. The RS232/Ethernet/IEEE-488 and/or Front panel key-pad provides full control of the Antenna interface and reduces the power consumption to the minimum by shutting down the un-selected channels.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	80 – 2,000 MHz (Two Channels)
2	Output Power @ P-1dB	150 Watts Minimum 80 - 2,000MHz
3	Nominal RF drive for rated power	0 dB typ.
4	Input VSWR	2:1 max
5	Harmonics	-20 dBc typ.
6	Spurious Signals	< -60 dBc typical
7	Temperature Protection	Baseplate above 80° C
8	AC Power Consumption (one channel transmits)	5,000 Watts maximum
9	AC Power Input	180 - 240VAC, 1Ø single Phase
10	Maximum RF Input	+3 dBm max
11	Antenna Switching time	100mS max
Mechanical		
12	Dimensions	31” x 24” x 26”
13	Weight	200 lb. max
14	Connectors	Type-N
15	Grounding	Chassis
16	Cooling	Internal Forced Air
Environmental		
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

Approved By: _____ Date: _____

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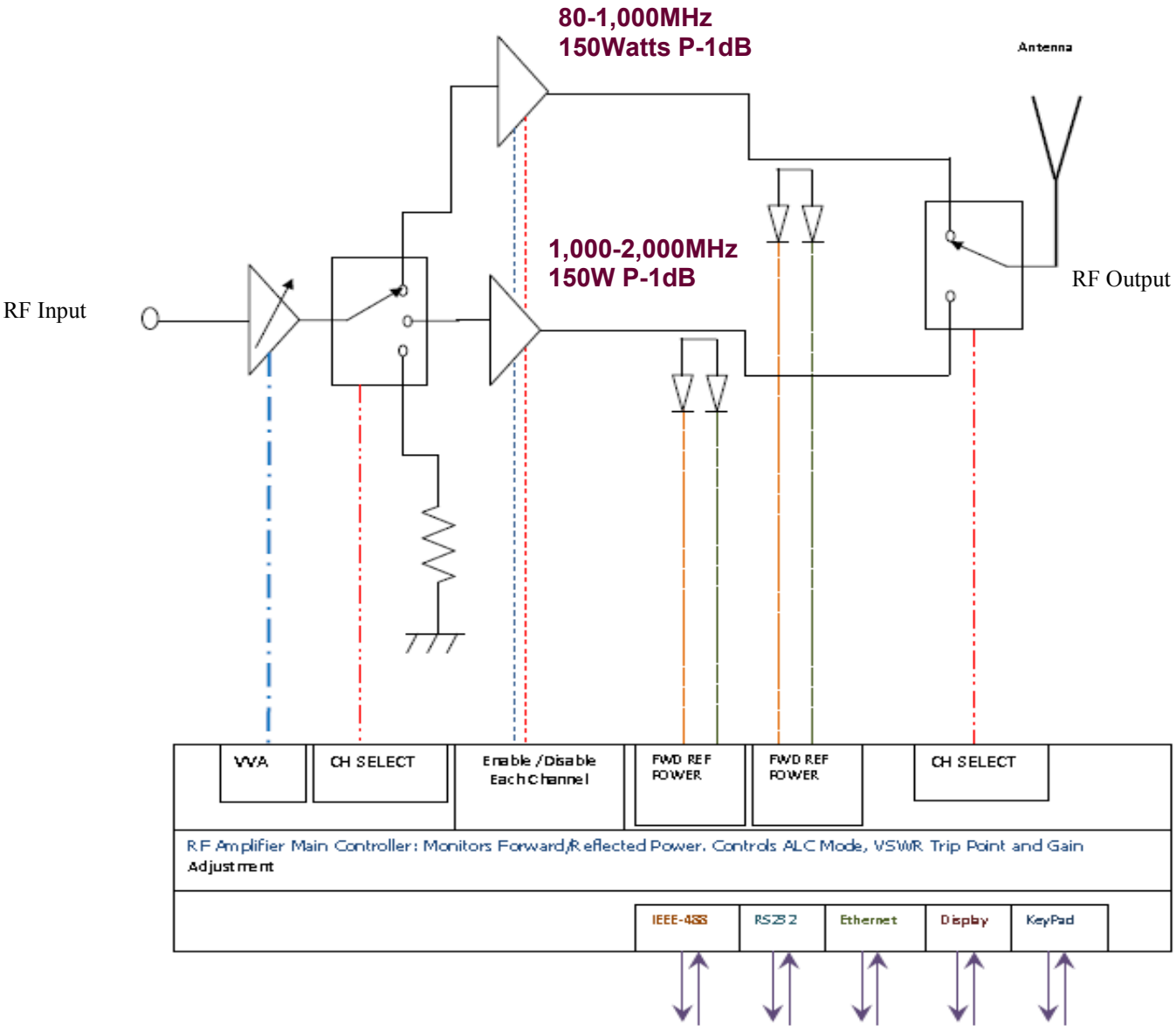

CIRCUIT INDICATIONS

◊ 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