



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)821-7413
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MODEL 6565

6.5-18 GHz
3000 WATTS
TWTA PULSED RF AMPLIFIER

TWT Broadband High Power RF Amplifier

The 6565 is a 3000 Watt broadband Pulsed TWT amplifier that covers the 6.5-18 GHz frequency range. This amplifier utilizes latest generation travelling wave tube technology that provide an excellent pulse performance across the band.

Due to robust engineering and employment of the most advanced technologies and components, this amplifier achieves high performance operation with proven reliability. Microprocessors provide the operator and or computer, access to monitor TWT conditions, fault latching and control of power supply and modulator parameters. Like all OPHIR_{RF} amplifiers, the 6565 comes backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
Electrical		
1	Frequency Range	6.5-18.0 GHz
2	Output Peak Power	3000 Watts Nominal
3	Input for Rated Output	0 dBm Nominal
4	Small Signal Gain	+65 dB Nominal
5	Gain Stability	0.25 dB/ 24 hours Nominal
6	Duty Cycle	6% Maximum
7	Output VSWR Protection	100%
8	Spurious Signals 0-250 Hz > 250 Hz	-55 dBc Minimum -60 dBc Minimum
9	RF Output Sample Port	-40 dB
10	Pulse Width	100 uSec Maximum
11	Repetition Rate	0-500 KHz
12	Rise & Fall Time	100 nSec Maximum
13	Droop	0.01 dB/uSec Maximum
14	Pulse Jitter	± 2.5 nSec
15	Video/RF Throughput Delay	300 nSec Maximum
16	Elapsed Time Meter	00,000.00 Hours 100%
17	Power Consumption	2.6 kVa Maximum
18	AC Input	240 VAC ± 10%, Single Phase, 60 Hz
19	RF Input	+10 dBm max
20	Modulation Input Pulse	+5v TTL





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<u>Mechanical</u>		
21	Dimensions (W x H x D)	19" x 21" x 28" (12RU)
22	Weight	150 Lbs.
23	Connectors RF Input Type-N RF Output WRD-750 RF Samples Type-N RF Output Pulse Video Sample BNC Modulation Input BNC RS-232 DB-25 IEEE488 GPIB Ethernet RJ-45 Primary power NEMA L5-20 (Three Wire) Remote Control DB-25	
24	Grounding	Chassis
25	Cooling	Internal Forced Air
<u>Environmental</u>		
26	Operating Temperature	0.1° C to +50° C
27	Operating Humidity	95% Non-condensing
28	Operating Altitude	Up to 10,000' Above Sea Level
29	Shock and Vibration	Normal Truck Transport
<u>Controls & Indicators</u>		
30	Operation	Front Panel Display is Active when powered on
31	Standard Mode	Warm-Up (With Time Remaining Standby) Operate (With Pulse Indication) Fault (With Fault Name)
32	Diagnostics Mode	Heater Voltage
33		Heater Current
34		Grid Bias Voltage
35		Grid Drive Voltage
36		Helix voltage
37		Helix Current
38		Collector Voltage
39		Collector Current
40		Cathode Current
41		VSWR
<u>Options</u>		
42	Racking Options Cabinet Installation with Caster wheels	
43	Primary Power Options; 208 V 3-Phase, 400 Hz, European or Asian Primary Power	
44	Consult Factory for additional options	



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Specifications subject to change without notice



**REAR CONNECTOR
 MODEL SHOWN**

ORDERING MODELS	
FE	FRONT MOUNTED RF INPUT & OUTPUT CONNECTORS
RE	REAR MOUNTED RF INPUT & OUTPUT CONNECTORS