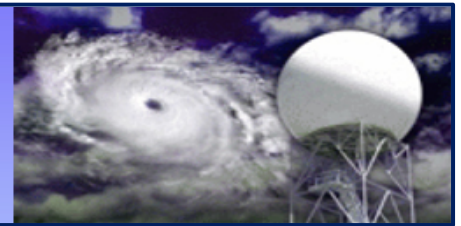


Providing Solutions for Future Challenges and Technology

Reliability
Performance
Innovation



Pulse Systems, Inc.

100 Energy Drive
Canton, MA 02021-2897
U.S.A.

Tel: (781) 828-1142
Fax: (781) 828-8359
E-mail: sales@pulsesystem.com

www.pulsesystem.com

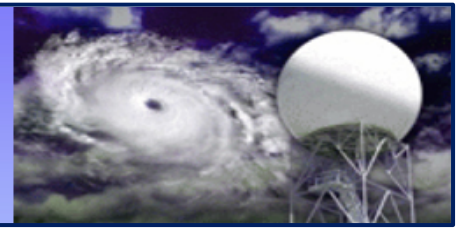
C-Band 1 MW Transmitter Characteristics

ITEM	PERFORMANCE CHARACTERISTICS
Transmitter Type	Coherent Pulsed Klystron Amplifier
Klystron Type	Cathode Pulsed 1 MW VKC8388
Cooling Type	Forced Air-Cooled
Prime Power Requirements	3 Phase 208/240 Vac, 50/60Hz ± 10% Power Factor >.9 23KVA Maximum
Bite/Fault	Integral built-in circuits, Faults reported parallel via 15 "D Connector"
Solenoid	VYW-8388 with Power Supply
Vac-Ion Pump	Vac-Ion Power Supply
Transmitter Output	
Transmitter Frequency	Klystron instantaneous Band Width, 5.6-5.65GHz
Peak Power	1000kW, typical
Corona Discharge	10 Pico-Coulombs Maximum at Operating Voltage
RF Phase Stability	0.09 Degrees Maximum, Pulse to Pulse
RF Pulse Width	Remotely Controlled – 0.8-4.5 Microseconds RF Pulse Widths & Cathode TTL Gate for "nested RF"
RF Pulse Shape	Pulse Overshoot/Undershoot <3% Ripple <±0.5% Droop <0.5%
PRF	Externally Supplied, 250-1500 pps, TTL Compatible
PRF Stagger Ratio	Dual PRF – 3:2, 4:3 & 5:4, Externally Supplied
Input Signals Interface	
RS422	Connector (ETHERNET Optional)
Parallel Connector	25 Pin D Connector
PRF Pulse	TTL Compatible, 250-1500 pps BNC Connector
RF Pulse	Pulsed; Amplitude 0dBm Typical, 10dBm Maximum, RF Frequency 5.6-5.65 GHz Connector; SMA
Signal Conditioning	RF Pulse Rise/Fall Time shall be adjustable to optimize the spectrum occupancy in the Exciter supplied by the buyer.
Prime Power	3 Phase, 4 wire with separate Ground
Output RF Signal Interface	WR187 Circular Cover Flange
Environment	Ambient Temperature, 0 to 50 Degrees Celsius Humidity, 0 to 100 %, Non-Condensing
Physical Size	
19 Inch- Electrical Control Cabinet	Length: 42" Width: 23" Length: 86" Estimated Weight: 220 Lbs
24 Inch- Klystron Cabinet	Length: 43" Width: 28" Length: 86" Estimated Weight: 550 Lbs

PSI

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C-Band Klystron Transmitter



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