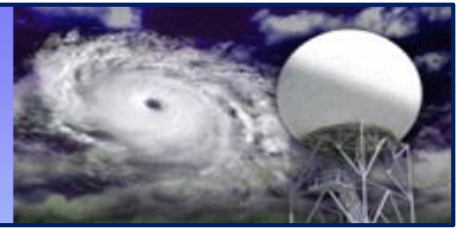


**Providing Solutions for
Future Challenges and Technology**

**Reliability
Performance
Innovation**



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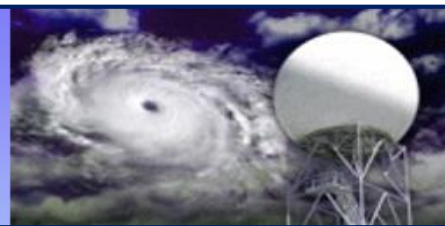
S-Band 1MW Low Frequency Transmitter Characteristics

ITEM	PERFORMANCE CHARACTERISTICS
Transmitter Type	Coherent Pulsed Klystron Amplifier
Klystron Type	Cathode Pulsed 1 MW VKS-8287-8287A
Cooling Type	Forced Air-Cooled
Prime Power Requirements	3 Phase 208/240 Vac, 50/60Hz ± 10% Power Factor >.9 10KVA Maximum 208/220 three phase 40 amps line current max
Bite/Fault	Integral built-in circuits, Faults reported parallel via 15 "D Connector"
Solenoid	VYW-8283 with Power Supply
Vac-Ion Pump	Vac-Ion Power Supply
Transmitter Output	
Transmitter Frequency	Klystron Tunable Bandwidth, 2.7-3.0GHz
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 – 0.8-5.0 µsec 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	
Remote Interface	Connector RJ-45 ETHERNET
Local User Interface	Touch screen LCD Display
PRF Pulse	TTL Compatible, 250-1500 pps BNC Connector
RF Pulse	Pulsed; Amplitude 0dBm – 3dBm, RF Frequency 2.7-3.0GHz 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	WR284 Circular Cover Flange
Environment	Ambient Temperature, 0 to 50 Degrees Celsius Humidity, 0 to 100 %, Non-Condensing
Physical Size	
19 Inch-Electrical Cabinet	Length: 42" Width: 23" Height: 86" Estimated Weight: 220 Lbs
24 Inch-Klystron Cabinet	Length: 43" Width: 28" Height: 86" Estimated Weight: 550 Lbs



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S-Band Klyston Transmitter



PSI