

# XR640-8000A 8.0 kW, Pulsed, X Band Transmitter



## DESIGN FEATURES

- Compact Rack Mounted Package
- Designed for Military Ground Applications
- High Reliability, Modular High Voltage Power Supply
- Front Panel Displays Control, Status, and Fault Conditions
- Duty Cycle 2% and 5% Available

## RF Specifications

RF Input Power .....	≥ +10 ≤ +18 dBm
RF Output Power (Note 1) .....	8 kW, min.
Frequency Range .....	8.2 to 12.0 GHz
Duty Cycle .....	2% or 5%
Pulse Repetition Frequency .....	2.435 to 3.165 kHz
Pulse Width .....	200 ns or 7 μs (toggle)
Pulse Delay Jitter .....	± 5ns, max.
Pulse Rise & Fall Time .....	25 ns, max.
Output VSWR .....	1.5:1, max.
Phase Noise .....	-60 dBc, max.
RF Harmonics .....	-10 dBc, max.
Sample Port .....	-60 dBc
Load VSWR .....	1.5:1 max for specified performance, for continuous operation

Note 1. Power across any 500 MHz bandwidth.

## Electrical Specifications

Prime Power .....	115 VAC, 3-phase, 400 Hz
Input Power .....	1000 VA, typ.

## Mechanical Specifications

RF Input Connector .....	SMA Female
RF Output .....	WR90 Choke Flange
Size .....	6" x 16" x 14"
Weight .....	65 lbs, nom.

## Environmental Specifications

Temperature:	
Operating .....	-35 to +53°C
Storage .....	-52 to +63°C
Humidity .....	MIL-STD-810E, Method 507.3
Shock .....	MIL-STD-810E, Method 516.4
Altitude (Operating) .....	4,000 ft.
EMI/EMC .....	MIL-STD-461C, CE03, RE-02