

# RF POWER AMPLIFIERS MODEL 8100-070



## MODEL 8100-070

- RTCA DO-160 HIRF Cat L/G
- High Reliability Silicon Design
- Excellent Performance and Efficiency
- Safety Interlock

**ETS-Lindgren's Model 8100-070 RF Power Amplifier** is a 8000 W Pulsed TWT power amplifier, designed primarily for EMC applications that include DO-160 and MIL-STD 464. Utilizing Silicon LDMOS technology, this RF amplifier provides higher linearity, rugged design in a more compact design.

The 8100-070 provides very low distortion and tolerance for 100% mismatch.

### Technical Specifications

Electrical	
Frequency Range	8 GHz to 12.4 GHz
Nominal Output Power	8000 W
Gain Variation	± 5 dB
Harmonics	-20 dBc Minumum
Pulse Width	50 uS
PRF at 1 uS	100 kHz (Duty 6-10%)
PRF at 100 uS	1 kHz (Duty 6-10%)
Output Impedance	50 Ω
Input VSWR	2:1 Maximum
AC Supply	3 x 400 VAC, 3 Phase
Supply Frequency Range	47/63 Hz
Line Power	< 4000 VA
Mechanical	
Remote Interface	GPIB, LAN, USB
RF Connectors	Input: Type N (f) Output: WR 90
Physical	
Dimensions	12U Rack, 800 mm Deep
Weight	100 kg (220 lb)