

RF POWER AMPLIFIERS MODEL 8100-138



MODEL 8100-138

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

ETS-Lindgren's Model 8100-138 RF Power Amplifier is a 13000 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 8100-138 provides very low distortion and tolerance for 100% mismatch.

Technical Specifications

Electrical	
Frequency Range	4 GHz to 8 GHz
Nominal Output Power	13000 W
Gain Variation	± 4 dB
Harmonics	-20 dBc Minimum
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 ± 10%
Supply Frequency Range	47/67 Hz
Line Power	< 7000 VA
Mechanical	
Remote Interface	GPIB, Ethernet, USB
RF Connectors	Input: Type N (f) Output: WRD 350
Physical	
Dimensions	24U Case, 800 mm Deep
Weight	220 kg (485 lb)