75 Kilowatts Peak Power  
Fixed Frequency 9345 ± 20 MHz

This coaxial X-band pulse magnetron was designed using a very conservative load factor. Its low cathode emission density, and large anode structure provide many thousands of hours of service life. The coaxial design provides high efficiency and excellent spectrum shape. The L-5191 is recommended for all new 75 KW radar systems as well as a replacement magnetron to upgrade life, power output, and spectrum of existing radars. The center frequency can be set to suit individual requirements. Tunable versions are available.

**OPERATING CONDITIONS**

- Heater Voltage (Standby) ................. 14.0 V
- Heater Current ................................ Max. 1.5 A
- Preheat Time ................................ Min. 180 sec.
- Pulse Voltage ................................ Nominal 13 kv
- Pulse Current ................................ 12 A

**ABSOLUTE MAXIMUM RATINGS**

- Heater Voltage ................................ 15.5 V
- Heater Surge Current ....................... 6 A
- Pulse Current ................................ 16 A
- Pulse Length .................................. 7.0 us
- Average Input Power ....................... 250 W
- Duty Cycle .................................. 0.0013
- Anode Temperature ......................... 150°C
- Cathode Temperature ....................... 175°C
- VSWR ......................................... 1.3:1 Ratio

**PERFORMANCE CHARACTERISTICS**

- Peak Power .................................. Min. 65 kW
- Fixed Frequency ............................. 9345 ± 20 MHz
- Pulling Factor (1:3:1 VSWR) ............... Max. 5 MHz
- Missing Pulses ............................. Max. 0.1 Percent
- Side Lobes .................................. Min. 8.0 db
- Bandwidth .................................. Max. 2.0/tpc. MHz
- Anode Temperature Co-efficient ........... Max. 0.25 MHz/°C

**MECHANICAL RATINGS**

- Mounting Position .......................... Any
- Weight ........................................ Approx. 7 lbs.
- Mating Mounting Flange .................... UG-137 B/U or equivalent modified with clearance mounting holes.
- Anode Cooling .............................. Forced Air or Conduction
Personnel should not be exposed to the microwave energy which may radiate from this device if improperly used or connected. All input and output rf connections, waveguide flanges, and gaskets must be rf leak proof and properly engaged. Never operate this device without a microwave energy absorbing load attached. Never look into an open waveguide or antenna while the device is energized.

This device may produce X-radiation when energized. Operating personnel must be protected by appropriate shielding. X-ray caution signs or labels should be permanently attached to equipment directing operating personnel never to operate this device without X-ray shielding in place.