L3’s L6060 is an X-Band coupled cavity traveling wave tube. Its rugged compact design is suitable for use in airborne radar systems. The tube is liquid-cooled to achieve the 3.5 percent duty. It has a shadow gridded gun with a two-stage depressed collector for high efficiency. The cathode is an F-type low-temperature design for long life. Special clad cloverleaf pole pieces and special body cooling is used for reliable long pulse and high-average power operation. The tube is PPM focused with samarium cobalt magnets.

**KEY FEATURES**

- 9.5 GHz to 10.2 GHz
- 60 kW peak power
- High-efficiency (two-stage collector)
- 3.5% duty
- 5% to 10% duty at reduced peak power, SSG and bandwidth
- Liquid cooled

**TYPICAL PERFORMANCE**

![Saturated Power vs. Frequency](image)

**SPECIFICATIONS**

**PERFORMANCE**
- Frequency: 9.5 GHz to 10.2 GHz
- Peak RF Power Output: 60 kW
- Duty: 3.5% max
- RF Drive Power Input: 33 dBm min
- Pulse Width: up to 150 μsec

**INTERFACE**
- Cathode Voltage: -34.5 kV
- Peak Cathode Current: 7.6 A
- Collector Voltage #1: 24.5 kV
- Collector Voltage #2: 17.9 kV
- Peak Body Current: 0.8 A max (with RF)
- Grid Bias: -400 V
- Peak Grid Drive: +400 V
- Heater Voltage: -11.0 V
- Heater Current: 3.8 A
- Liquid Cooling: 3 GP min (@ 30 ºC inlet)
- Operating Temperature: -40 °C to +70 °C
- Prime Power @ max. duty: 5,000 W max

**MECHANICAL DESCRIPTION**
- Mounting Position: Any
- Dimensions: See outline
- Weight: 20 lb. max
- RF Output Flange: UG-135/U

All voltages are with respect to cathode.
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