7.5 Kilowatts Minimum Peak Power
Fixed Frequency 9345 ± 20 MHz

This X-band, coaxial magnetron is specifically designed to provide long life in commercial airborne weather radar applications. While it is not a direct mechanical replacement for the 2J42 and 2J42H magnetrons, it is recommended for new equipments requiring this performance.

OPERATING CONDITIONS
Heater Voltage (Standby) ................. 6.3 V
Heater Current .................................. 1.7 A
Pre-heat Time .................................. Min. 60 sec.
Pulse Voltage .................................. 4.0 to 4.5 kv
Pulse Current .................................. 4.5 A
Time of Steepest Rise of Voltage .......... Min. 0.1 μsec

ABSOLUTE MAXIMUM RATINGS
Heater Voltage .................................. 13.8 V
Heater Surge Current ......................... 6.0 A
Pulse Voltage .................................. 5.0 kv
Pulse Current .................................. 6.0 A
Pulse Length .................................. 6.0 μsec.
Duty Cycle .................................. 0.0013
Anode Temperature ......................... 150° C
VSWR .................................. 1.3:1

PERFORMANCE CHARACTERISTICS
Peak Power .................................. Min. 7.5 kw
Fixed Frequency ..................... 9345 ± 20 MHz
Pulling Figure (1.3:1 VSWR) ........... Max. 5 MHz
Anode Temperature Coefficient ........ Max. 0.25 MHz/°C
Altitude .................................. Max. 65,000 Feet

MECHANICAL RATINGS
Mounting Position .................. Any
Weight .................................. Max. 2.5 lbs.
Anode Cooling ........................ Forced Air or Conduction