GENERAL CHARACTERISTICS

A microwave oscillator of the single cavity (integ ral) reflect type designed for operation in the frequency range from 5100 to 5900 megacycles with a minimum power output of 70 milliwatts at 5500 Mc.

Heater Voltage (AC or DC) 3.3 Volts
Heater Current 440 ma
Frequency Range 5100 to 5900 Mc

MAXIMUM RATINGS

DC Resonator Voltage 350 Max. Volts
DC Resonator Current 50 ma
DC Reflector Voltage 350 Volts
Heater-Cathode Potential 45 Volts

TYPICAL OPERATION

Resonator or Shell Voltage 300 Volts DC
Frequency 5.00 to 5900 Mc
Reflector Voltage (Mode A Max. P.D.)
5100 Mc -45 to -145 Volts DC
5900 Mc -55 to -205 Volts DC
Power Output (Mode A) 5100 to 5900 Mc
70 mw min
95 mw average
Resonator Current 30 ma DC
Reflector Current 7 ma Max
Electronic Tuning (P.C. /2) 5100 to 5900 Mc
50 Kg Max
Temperature Coefficient -0.05 to +0.1C inc/C

MECHANICAL

See attached drawing
Cathode Oxide coated, unipotential
Base To fit standard octal with 1/4 pin enlarged to 11/32” diameter

Pin No. 1 2 6 7 8 Top 9
Element Shell heater girdle Heater Cathode Reflector Mounting Any Position Cooling Freely circulating Air

RAYTHEON MANUFACTURING COMPANY