

VACUUM TUBE

TYPE OK-159

RAYTHEON

TYPE OK-159

Velocity Modulation Reflex Oscillator Type OK-159

General Characteristics

Microwave oscillator employing self-contained tunable cavity. Oxide coated, unipotential cathode.

Heater Voltage .....	6.3	Volts AC-DC
Heater Current .....	.65	Amperes

Maximum Ratings

Heater Voltage .....	6.3	± 10% Volts
Grid #1 .....	300	Volts DC
Grid #2 and #3 .....	300	Volts DC
Cathode Current .....	45	Ma DC
Reflector Voltage .....	0 to -300	Volts DC
Frequency Range .....	400	Mc.

Typical Operation

Grid #1 .....	300	Volts DC
Grid #2 and #3 .....	300	Volts DC
Reflector Voltage .....	-100 to -175	Volts DC
Cathode Current .....	20	Ma DC
Frequency Range .....	2950 - 3275	Mc.
Power Output .....	150	Mw.
Electrical Tuning Range between 1/2 power points .....	20	Mc.
Maximum Frequency change in any 20°C range .....	3.0	Mc.

Mechanical

Base: Standard Intermediate Octal

Pin No:	1	2	3	6	7	Top Pin
	Shell, G <sub>2</sub> &3	Heater	Cathode	G <sub>1</sub>	Heater	Reflector

Maximum Overall Dimensions

Height .....	Max. 4.5"
Diameter - (a) .....	Max. with tuning screws turned out 3-3/16"
- (b) .....	Max. tube dimension with no tuning screws 1-15/16"
Mounting .....	Any position
Cooling .....	Freely circulating air

RAYTHEON MANUFACTURING COMPANY

POWER TUBE DIVISION

OUTLINE DRAWING

