

RAYTHEON

TYPE OK-159

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~~TYPE OK-159~~Velocity Modulation Reflex Oscillator Type OK-159General Characteristics

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

Heater Voltage	6.3	Volt: AC-DC
Heater Current	.65	Ampere

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 ₂ &3	Heater	Cathode	G ₁	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

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TYPE QM 159

Diagram showing the bottom view of the antenna assembly. The circular base features eight mounting holes arranged in a circle. Labels indicate the following components and connections:

- NC**: Not Connected (pointing to two mounting holes).
- GI**: Grounding Inductor (pointing to a central component).
- H**: Housing (pointing to the outer rim).
- HC**: Housing Cap (pointing to a central component).
- GND**: Ground (pointing to a central component).
- OUTPUT BOSS**: 5/16" 40 NEF2 TAP (pointing to a central component).

BOTTOM VIEW

POWER TREE DIVISION