DESCRIPTION:

X-Band Ruggedized Reflex Klystron. Former designation K465. Designed for local oscillator service where maximum frequency stability is required under conditions of extreme shock and vibration or sustained acceleration. Its compensated structure is designed to minimize frequency drift with time and temperature.

RATINGS AND CHARACTERISTICS

ELECTRICAL RATINGS:

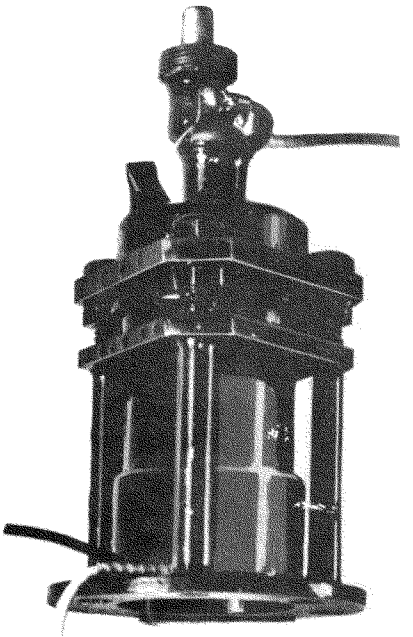
Heater Voltage	6.3V
Heater Current	0.95 amperes
D C. Resonator Voltage	350 V max.
Cathode Current	40 ma. max.
Frequency Range	8690—9410 MC
DC—Reflector Voltage	
Positive Limit	—15 Min. V
Negative Limit	—500 Max. V
Cathode to Heater Voltage	75 V Max.
Reflector Current	$< 2\ \mu$ Amperes

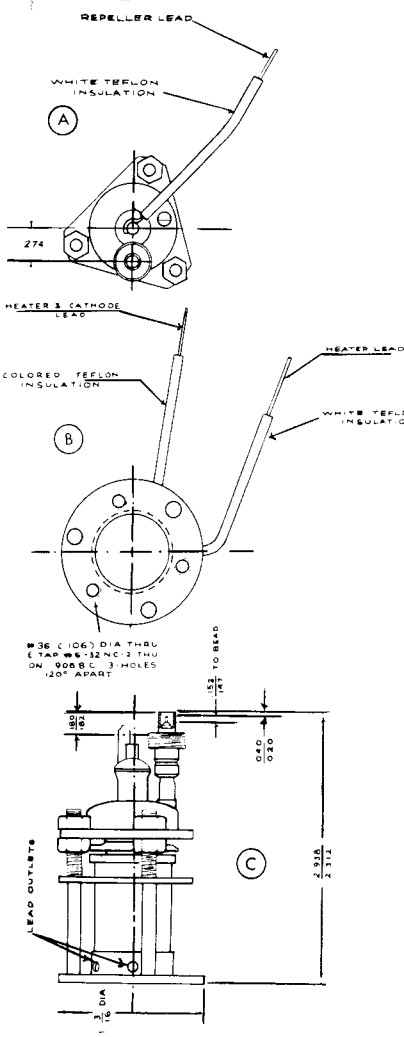
TUBE CHARACTERISTICS:

Cathode—Coated, Unipotential		
Life		500 Hours
Mounting Position		Any
Connections		See Mechanical
Cooling		Convection and conduction
Frequency Stability		
a. 10 G vibration	10—2000 cps	$\Delta f < 1$ MC
b. Acceleration	200 G	$\Delta f < 5$ MC
c. Slack	200 G	$\Delta f < 2$ MC
Starting Time		After 8 Min. ± 3 Mc
Temperature Compensation		< .5 Mc per degree centegrade

TYPICAL OPERATING CONDITIONS:

DC Resonator Voltage	250 Volts
DC Cathode Current	28 ma.
Power Output	25 mW
Frequency	9050 Mc
Electronic Tuning Range	40 Mc
Voltage swing for above tuning	12 Volts
DC Reflector Voltage	—98 Volts
Min. power output 6 db mismatch	10 mW





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