Eimac® EITEL-McCULLOUGH, INC.
SAN BRUNO · CALIFORNIA

TYPE VT-127A

TRIODE VHF PULSE OSCILLATOR

GENERAL CHARACTERISTICS

ELECTRICAL

Filament: Thoriated Tungsten		
Voltage	5.0	Volts
Current	10.4	Amperes
Minimum Filament Emission ($e_b=e_c=2500v$)	3.5	Amperes
Amplification Factor (average)	15.5	
Direct Interelectrode Capacitances (average)		
Grid-Plate	2.3	uufd.
Grid-Filament	2.7	uufd.
Plate-Filament	0.35	uufd.

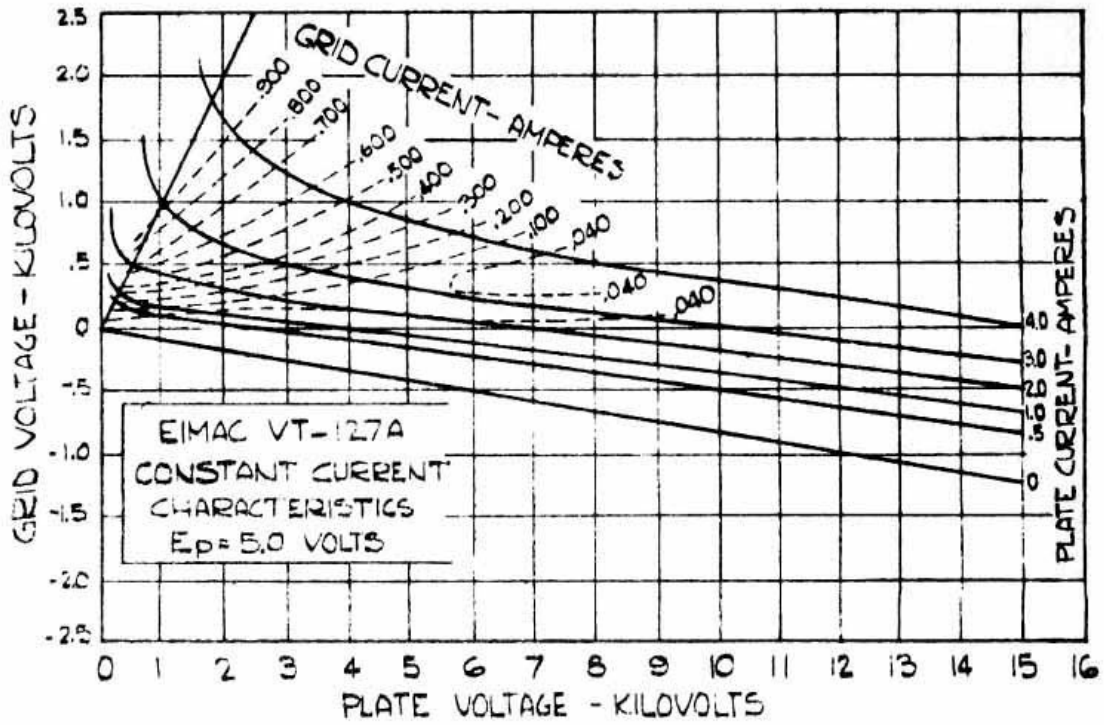
MECHANICAL

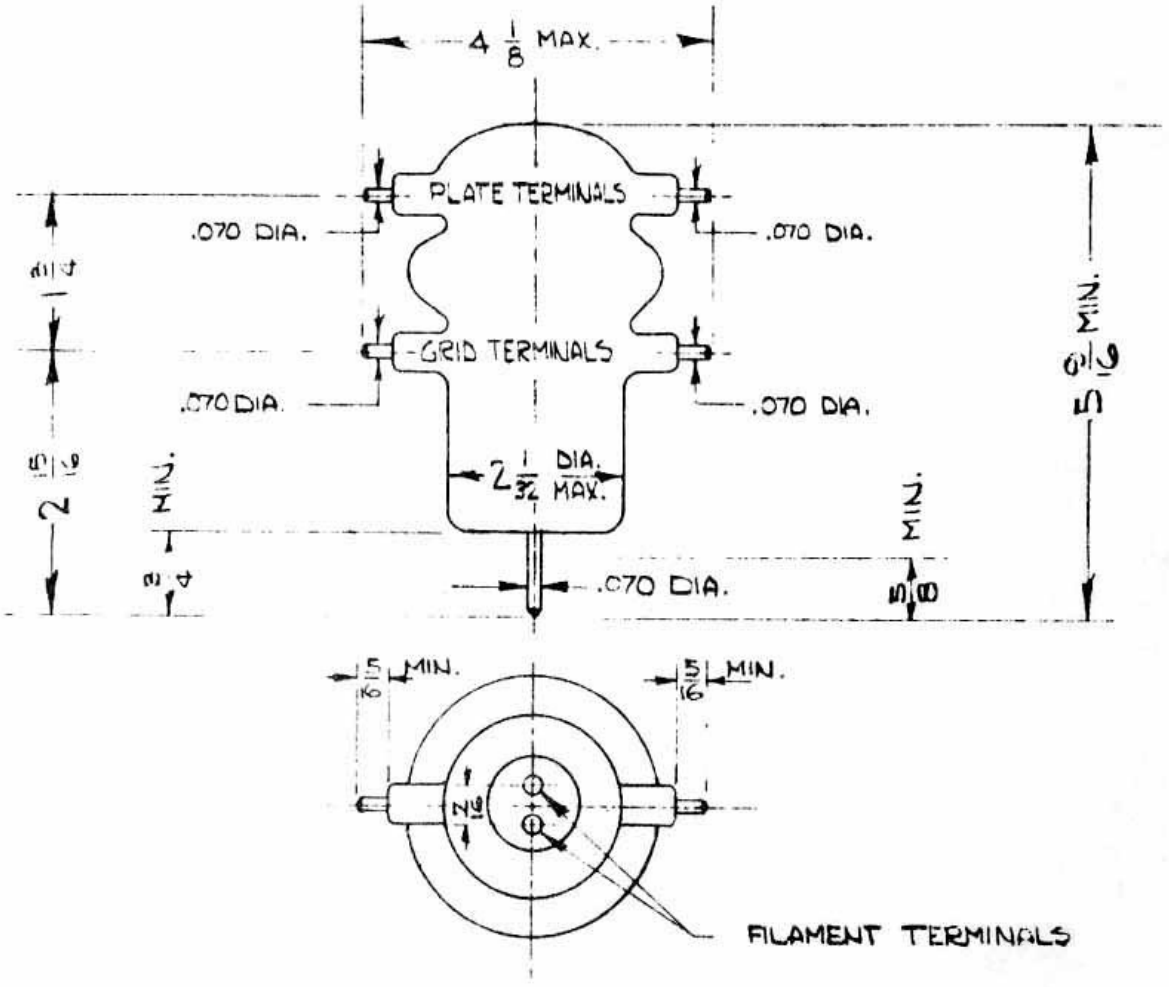
Maximum Overall Dimensions		
Length	5.56	in.
Diameter	4.13	in.
Net Weight	3	oz.
Shipping Weight.	1.5	lb.

PULSE OSCILLATOR OPERATION

Plate-Circuit Keying

	Typical Operation F=200 Mc.	Maximum Rating F=300 Mc.	
Pulse Plate Voltage	16,000	16,000	Volts
D-C Plate Current	9.4		Ma.
D-C Grid Current	2.3		Ma.
Grid-Leak Resistance	5,000		Ohms
Duty Cycle	0.50		Per Cent
Pulse Power Output	10,000		Watts
Plate Dissipation	100	100	Watts


GRID CURRENT - AMPERES
.900
.800
.700
.600
.500
.400
.300
.200
.100
.040
.040
.040
EIMAC VT-127A
CONSTANT CURRENT
CHARACTERISTICS
Ep = 5.0 VOLTS
GRID VOLTAGE - KILOVOLTS
PLATE CURRENT - AMPERES
PLATE VOLTAGE - KILOVOLTS


4 1/8 MAX.
PLATE TERMINALS
.070 DIA.
.070 DIA.
GRID TERMINALS
.070 DIA.
.070 DIA.
2 1/32 DIA. MAX.
.070 DIA.
MIN.
MIN.
MIN.
5/16 MIN.
5/16 MIN.
FILAMENT TERMINALS

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NOTE: The 100TL maximum ratings and typical operating values may be used for the VT127A in continuous service.

Connections to the VT127A may be made with holes drilled in metal blocks and set screws to secure the blocks to the tungsten leads. The Eimac HR-3 heat dissipating connector is recommended for the grid and plate terminals.