

# Eimac

# 100TL

THE DATA CONTAINED IN THIS BULLETIN IS APPLICABLE TO THE EIMAC 100TL TUBE ONLY.

Look for the identifying mark (LO) on the filament stem of the tube.

Tantalum elements, fabricated and exhausted by the exclusive Eimac process, makes it impossible for this tube to fail as a result of gas released internally. The new, low-loss, low-capacity anode connector consists of a solid copper button into which are terminated, three solid copper bars. The grid terminal is a solid tungsten rod. These new connectors greatly reduce r.f. losses, particularly on the higher frequencies. Much higher usable value of space current and phenomenally long life are gained because of the high order of thermionic efficiencies. High "mu" and improved grid design permit a marked saving in grid driving power. Sparkling clear glass envelopes radiate the maximum of heat.

### Characteristics

Filament Voltage	5 to 5.1 Volts
Filament Current	6.5 Amperes
Amplification Factor	12
Grid-Plate Capacity	2.3 mmfds.
Grid-Filament Capacity	2 mmfds.
Plate-Filament Capacity	4 mmfds.
Bulb	GT 25 Nonex
Base	Isolantite UX 4-prong
Overall Height	7.5 Inches
Maximum Diameter	3.125 Inches

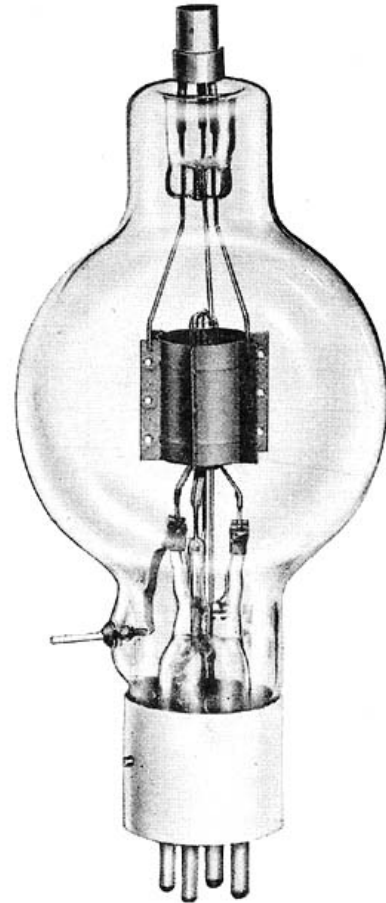
Tube must be operated vertically with ample ventilation provided.

### Maximum Ratings for All Frequencies Less Than 40 mc.

Maximum Plate Voltage	3000 Volts
Maximum Plate Current	225 Milliamperes
Maximum Grid Current	35 Milliamperes
Plate Dissipation (normal)	100 Watts

### Typical Operating Data (Single tube) Class "C" Telegraphy or Telephony

Plate Voltage	1000	2000	3000
Plate Current (milliamperes)	135	150	135
Grid Current	30	30	30
Grid Bias Voltage	-200	-400	-600
Power Output (75% eff.)	100	225	300



### Class "B" Audio

Plate Voltage	Load Impedance (Plate to Plate)	Power Output
3000	30,000 Ohms	465 Watts
2500	22,000 Ohms	430 Watts
2000	16,000 Ohms	350 Watts
1500	9,600 Ohms	270 Watts
1250	7,200 Ohms	230 Watts
1000	5,200 Ohms	170 Watts

### Typical Operating Conditions Approved by the Federal Communications Commission for Broadcast Services

	High Level Modulated	Linear Amplifier
Plate Volts	1250	2000
Plate Current (milliamperes)	160	75
Efficiency	50%	33%
Power Output (watts)	100	50

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