Federal Telephone and Radio Corporation
An IT&T Associate
100 KINGSLAND ROAD • CLIFTON, NEW JERSEY

TYPE 7C27

High Vacuum Triode, Power Amplifier, Oscillator

General Characteristics

Electrical

Filament Type	Thoriated Tungsten
Filament Voltage	16.0 volts
Filament Current	28.5 amperes
Amplification Factor	27
Direct Inter-electrode Capacitances	
Grid-Plate	14.0 uuf
Grid-Filament	14.0 uuf
Plate-Filament	0.4 uuf
Frequency for Maximum Ratings	110 mc

Mechanical

Type of Cooling	Forced-air
Minimum Flow	175 CFM
Minimum Pressure	2.5 inches of water
Maximum Overall Dimensions	
Length	8-1/32 inches
Diameter	3.532 inches
Connections	See outline drawing
Mounting Position	Vertical, anode down
Direction of Air Flow	Up

Maximum Ratings and Typical Operation

Class C R-F Power Amplifier and Oscillator
(No Amplitude Modulation)

	Typical Operation	Maximum Rating	
D-C Plate Voltage	4,000*	4,000	Volts
D-C Plate Current	1.5	2.0	amperes
D-C Grid Voltage	-600	-1,000	volts
D-C Grid Current	0.200	0.200	amperes
Plate Input	6,000	8,000	watts
Plate Dissipation	2,350	3,000	watts
Power Output	5,150		watts
Frequency	108	110	mc

* In push-pull grounded-grid amplifier with 3 Kw driver. All values are for one tube.

from RMA release # 527, Oct. 10, 1946

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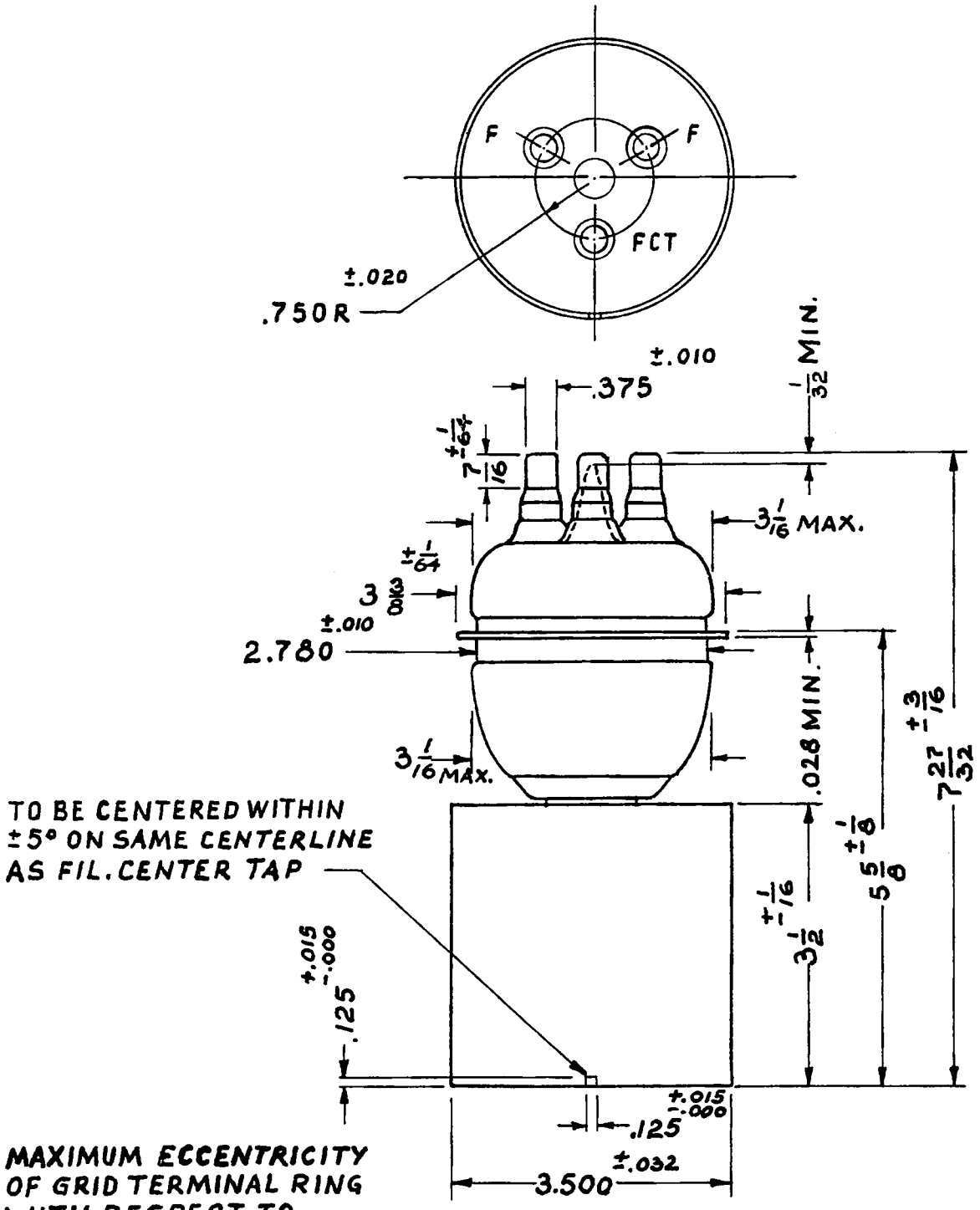

7C27

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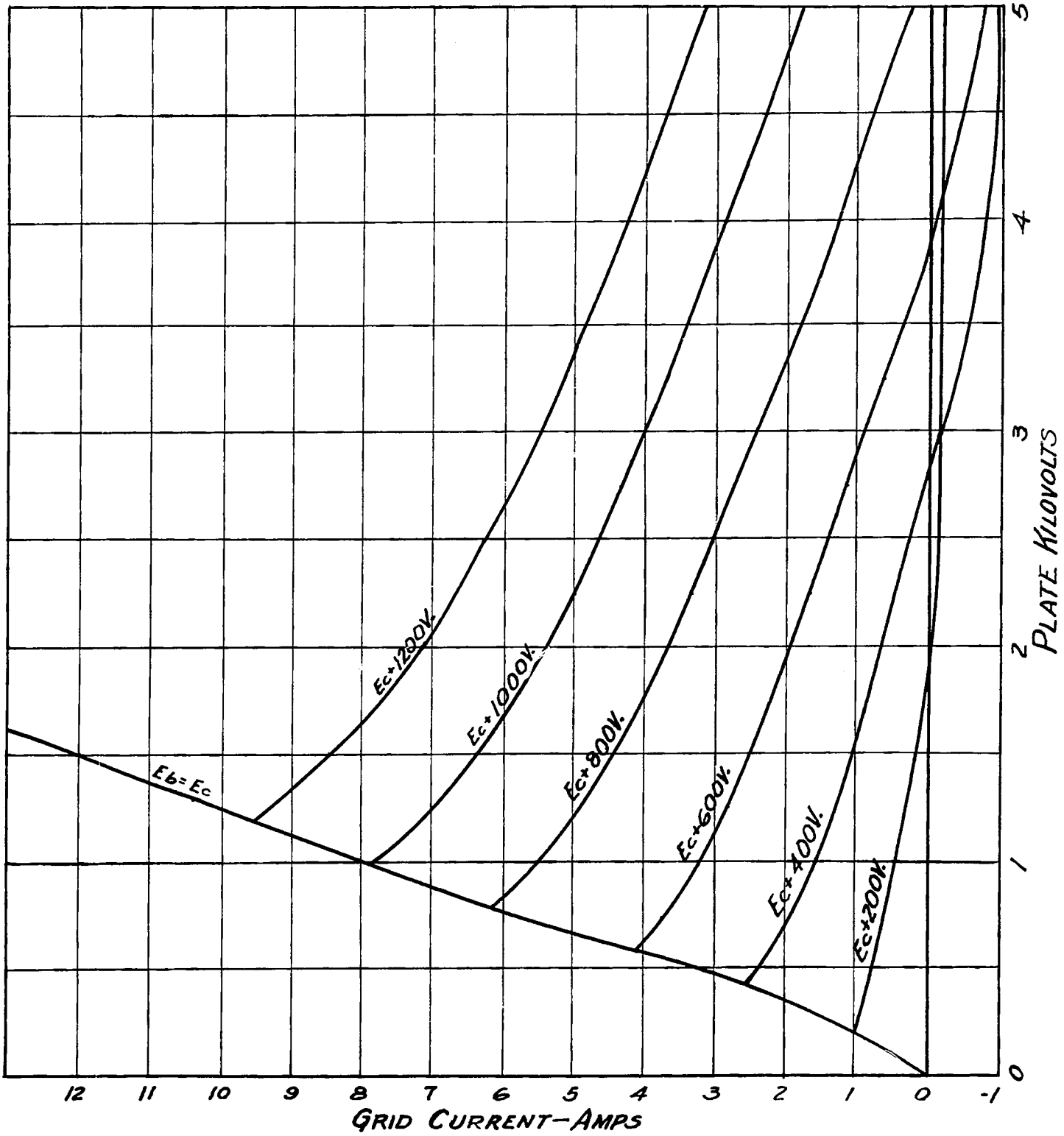
DATA- AVERAGE
GRID CHARACTERISTICS
TYPE-7C27



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DATA-TYPE 7C27
AVERAGE PLATE CHARACTERISTICS