

Federal Telephone and Radio Corporation



100 KINGSLAND ROAD • CLIFTON, NEW JERSEY



TYPE 7C30

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 Capacitance	
Grid-Plate	14.0 uuf
Grid-Filament	18.0 uuf
Plate-Filament	0.4 uuf
Frequency for Maximum Ratings	1.6 mc.

Mechanical

Type of Cooling	Forced-air
Minimum Flow	175 CFM
Minimum Pressure	2.5 inches of water
Maximum Overall Dimensions	
Length	7-7/16 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

C-W, Telegraphy (Key down conditions without modulation)

	<u>Typical Operation</u>	<u>Maximum Rating</u>	
D-C Plate Voltage	6,000	6,000	volts
D-C Plate Current	1.6	2.0	amperes
D-C Grid Voltage	-800	-1,000	volts
D-C Grid Current	.170	.200	amperes
Plate Input	9,600	12,000	watts
Plate Dissipation		3,000	watts
Power Output	7,500		watts
Driving Power	190 (approx.)		watts
Peak R-F Grid Input	1,180		volts

from RMA release # 545, Dec. 5, 1946

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Class C R-F Power Amplifier -- Telephony

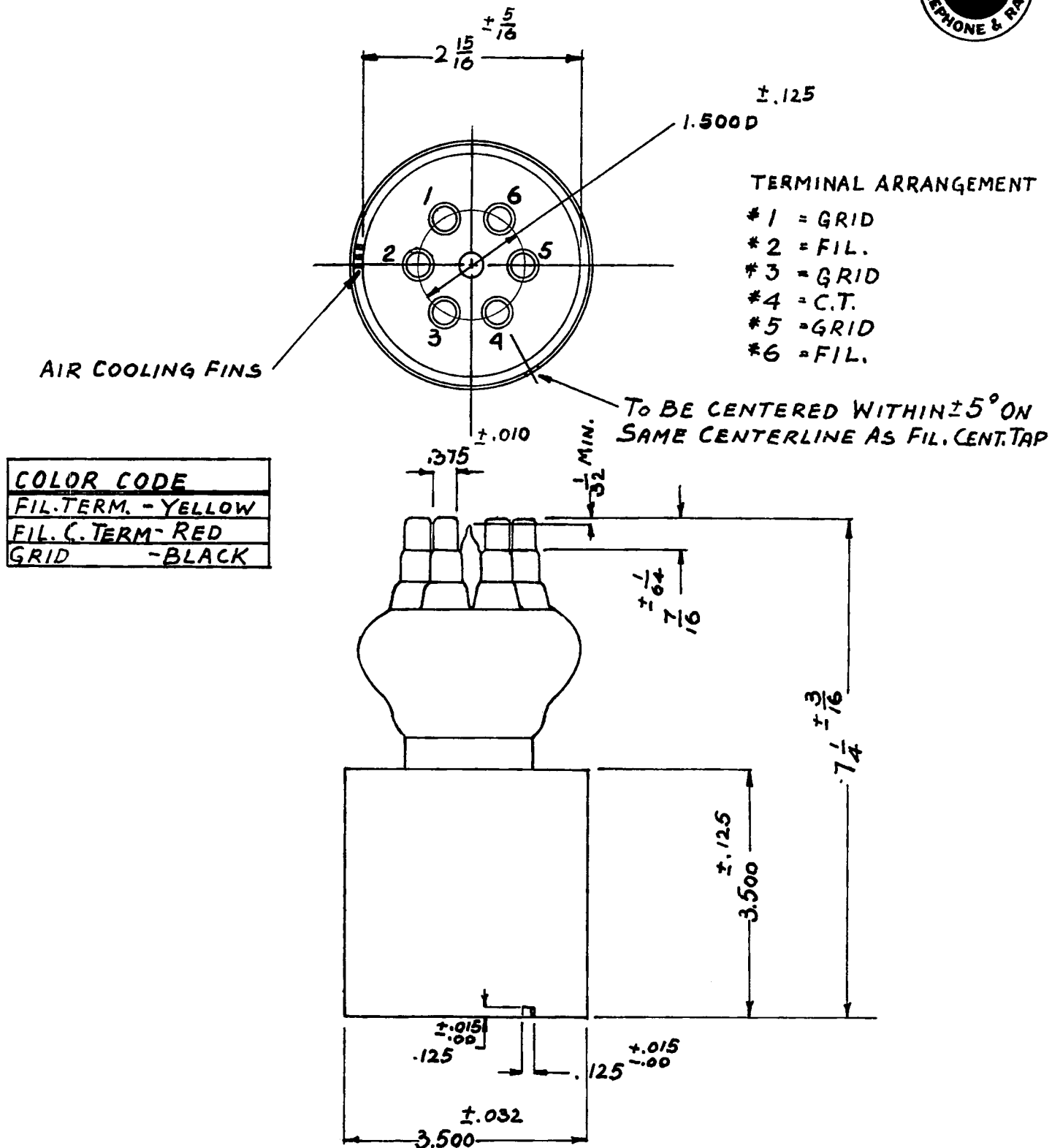
Plate Modulated (Carrier conditions with modulation factor up to 1.0)

	<u>Typical Operation</u>	<u>Maximum Rating</u>	
D-C Plate Voltage	3,750	5,000	volts
D-C Plate Current	1.0	1.5	amperes
D-C Grid Voltage	-425	-1,000	volts
D-C Grid Current	.14	.200	amperes
Plate Input	3,750	7,500	watts
Plate Dissipation	1,150	2,000	watts
Power Output	2,600		watts
Driving Power	85 (approx.)		watts
Peak R-F Grid Input	670		volts

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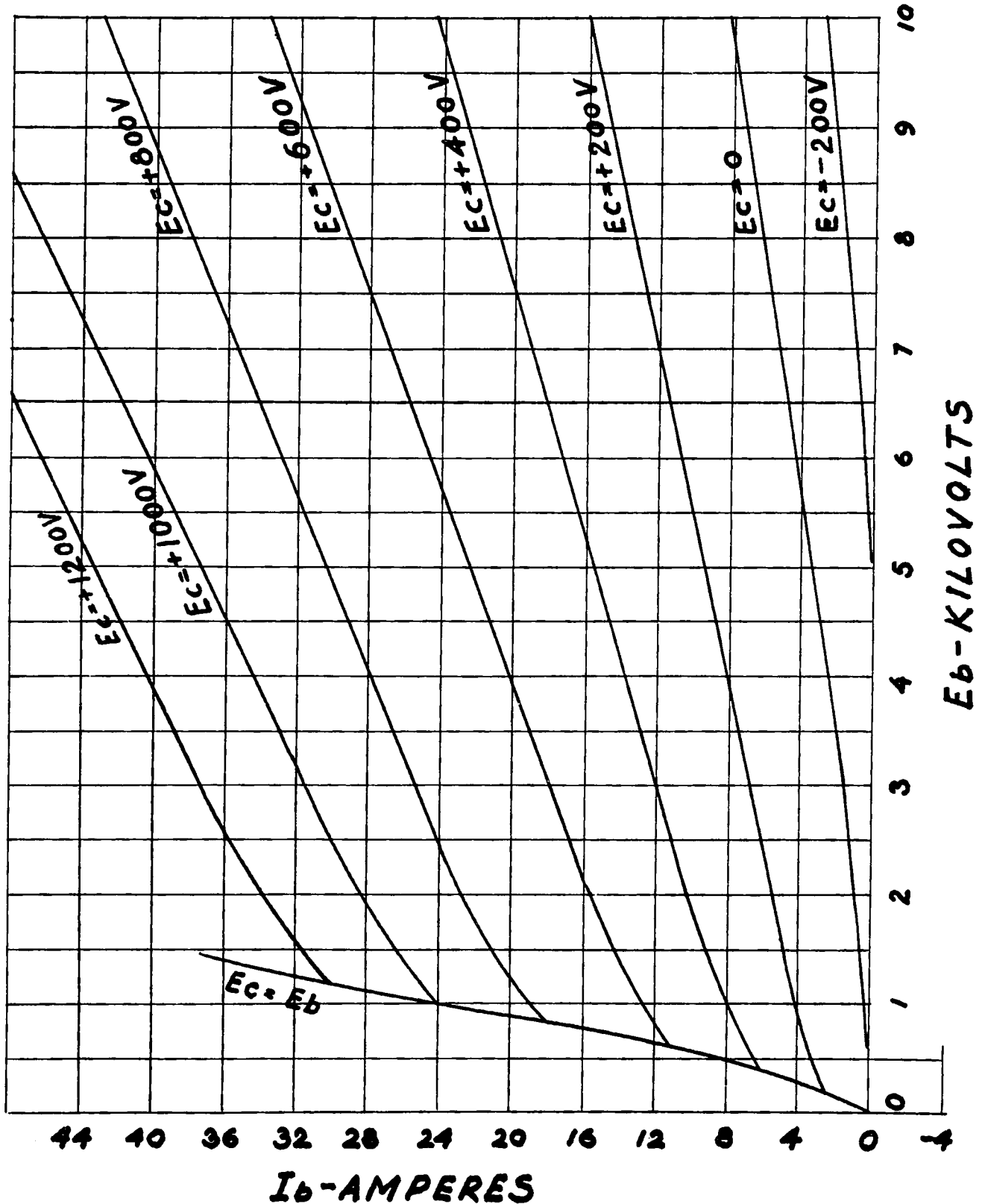
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DATA - TYPE 7C30 AVERAGE PLATE CHARACTERISTICS



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DATA- AVERAGE
GRID CHARACTERISTICS
TYPE - 7C30

