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MEDIUM-MU TRIODE–SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

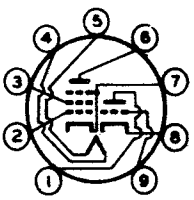
Heater, for Unipotential Cathodes:			
Voltage	6.3		ac or dc volts
Current	0.45		amp
Direct Interelectrode Cap.:	*With Shield*▲	*Without Shield*	
Triode Unit:			
Grid to Plate	1.8	1.8	μμf
Input	2.5	2.5	μμf
Output	1.0	0.4	μμf
Pentode Unit:			
Grid No.1 to Plate	0.006 max.	0.010 max.	μμf
Input	5	5	μμf
Output	3.5	2.6	μμf
Heater to Cathode (Approx., Each Unit)	3	3	μμf

Characteristics:	*Triode Unit*	*Pentode Unit*	
Plate Supply Voltage	150	250	volts
Grid-No.2 Voltage	–	110	volts
Cathode-Bias Resistor	56	68	ohms
Amplification Factor	40	–	
Plate Resistance (Approx.)	5000	400000	ohms
Transconductance	8500	5200	μmhos
Grid-No.1 Bias (Approx.) for Plate Cur. of 10 μamp	-12	-10	volts
Plate Current	18	10	ma
Grid-No.2 Current	–	3.5	ma

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip)	1-9/16" ± 3/32"
Maximum Diameter	7/8"
Bulb	T-6-1/2
Base	Small-Button Noval 9-Pin (JETEC No. E9-1)
Basing Designation for BOTTOM VIEW	9AE

Pin 1 – Triode Plate
Pin 2 – Pentode Grid No.1
Pin 3 – Pentode Grid No.2
Pin 4 – Heater
Pin 5 – Heater
Pin 6 – Pentode Plate
Pin 7 – Pentode Cathode, Pentode Grid No.3, Internal Shield
Pin 8 – Triode Cathode
Pin 9 – Triode Grid



▲ According to RTMA Standard ET-109A with external shield No. 315 tied to cathode of unit under test.

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CONVERTER SERVICE

Maximum Ratings, *Design-Center Values:*

	Triode Unit	*Pentode Unit*	
PLATE VOLTAGE	300 max.	300 max.	volts
GRID-No.2 SUPPLY VOLTAGE	–	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	–	*See Rating Curve at front of this Section*	
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Positive bias value	0 max.	0 max.	volts
PLATE DISSIPATION	2.7 max.	2.8 max.	watts
GRID-No.2 INPUT	–	0.5 max.	watt
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	90 max.	90 max.	volts
Heater positive with respect to cathode	90 max.	90 max.	volts

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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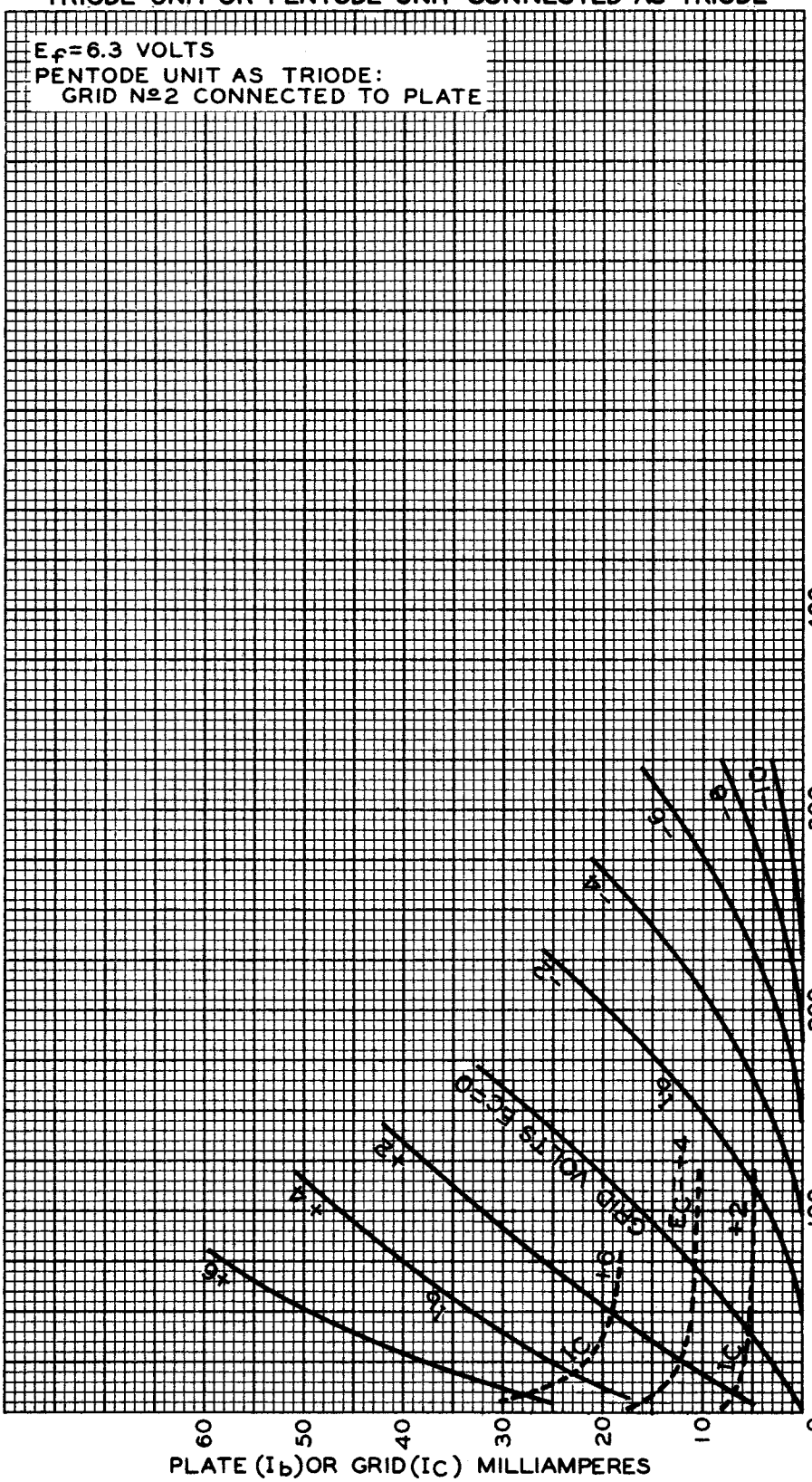
AVERAGE PLATE CHARACTERISTICS

TRIODE UNIT OR PENTODE UNIT CONNECTED AS TRIODE



NOV. 12, 1952
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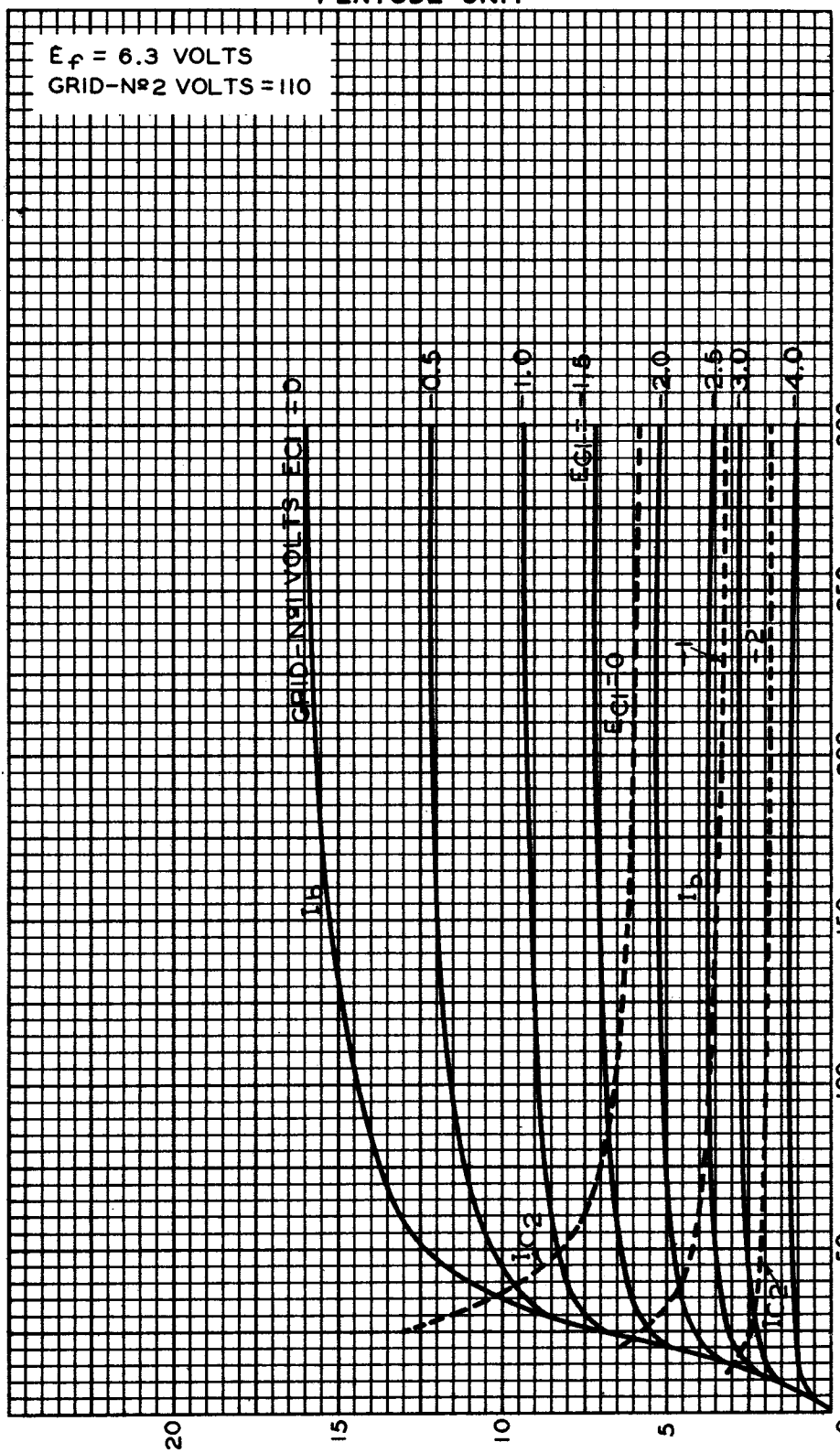
AVERAGE PLATE CHARACTERISTICS

PENTODE UNIT



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AVERAGE CHARACTERISTICS

TRIODE UNIT