Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For Remote-Control Tuning Applications As Relay-Control Tube

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

	Series	*Parallel*	
Heater-section arrangement			
Voltage (AC or DC)	12.6 ± 1.3	6.3 ± 0.6	volts
Current	0.450[a]	0.900[b]	amp
Peak heater-cathode voltage (Each unit):			
Heater negative with respect to cathode	200 max.		volts
Heater positive with respect to cathode	200[c] max.		volts

Direct Interelectrode Capacitances (Each Unit, Approx.):[d]

Grid to plate	6	μμf
Grid to cathode and heater	0.6	μμf
Plate to cathode and heater	5.5	μμf

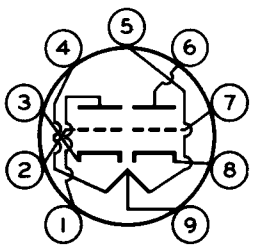
Characteristics, Class A_1 Amplifier (Each Unit):

Plate Voltage	100	volts
Grid Voltage	-2	volts
Amplification Factor	21.5	
Plate Resistance (Approx.)	2250	ohms
Transconductance	9600	μmhos
Plate Current	16	ma
Grid Voltage (Approx.) for plate μa = 100	-10	volts

Mechanical:

Operating Position	Any
Type of Cathodes	Coated Unipotential
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See *General Section*
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9A

Pin 1 - Plate of Unit No.2
Pin 2 - Grid of Unit No.2
Pin 3 - Cathode of Unit No.2
Pins 4 & 9 - Heater of Unit No.2
Pins 5 & 9 - Heater of Unit No.1



Pin 6 - Plate of Unit No.1
Pin 7 - Grid of Unit No.1
Pin 8 - Cathode of Unit No.1
Pin 9 - Heater Tap

RELAY-CONTROL SERVICE

Values are for Each Unit

Maximum Ratings, *Design-Maximum Values:*

PLATE VOLTAGE	300 max.	volts
GRID VOLTAGE:		
Positive-bias value	0 max.	volts
CATHODE CURRENT	30 max.	ma
PLATE DISSIPATION:		
With "on" time greater than 30 seconds in any 2-minute interval	2.5 max.	watts
With "on" time 30 seconds or less in any 2-minute interval	4.5 max.	watts

Typical Operation:

With 5000-ohm relay load

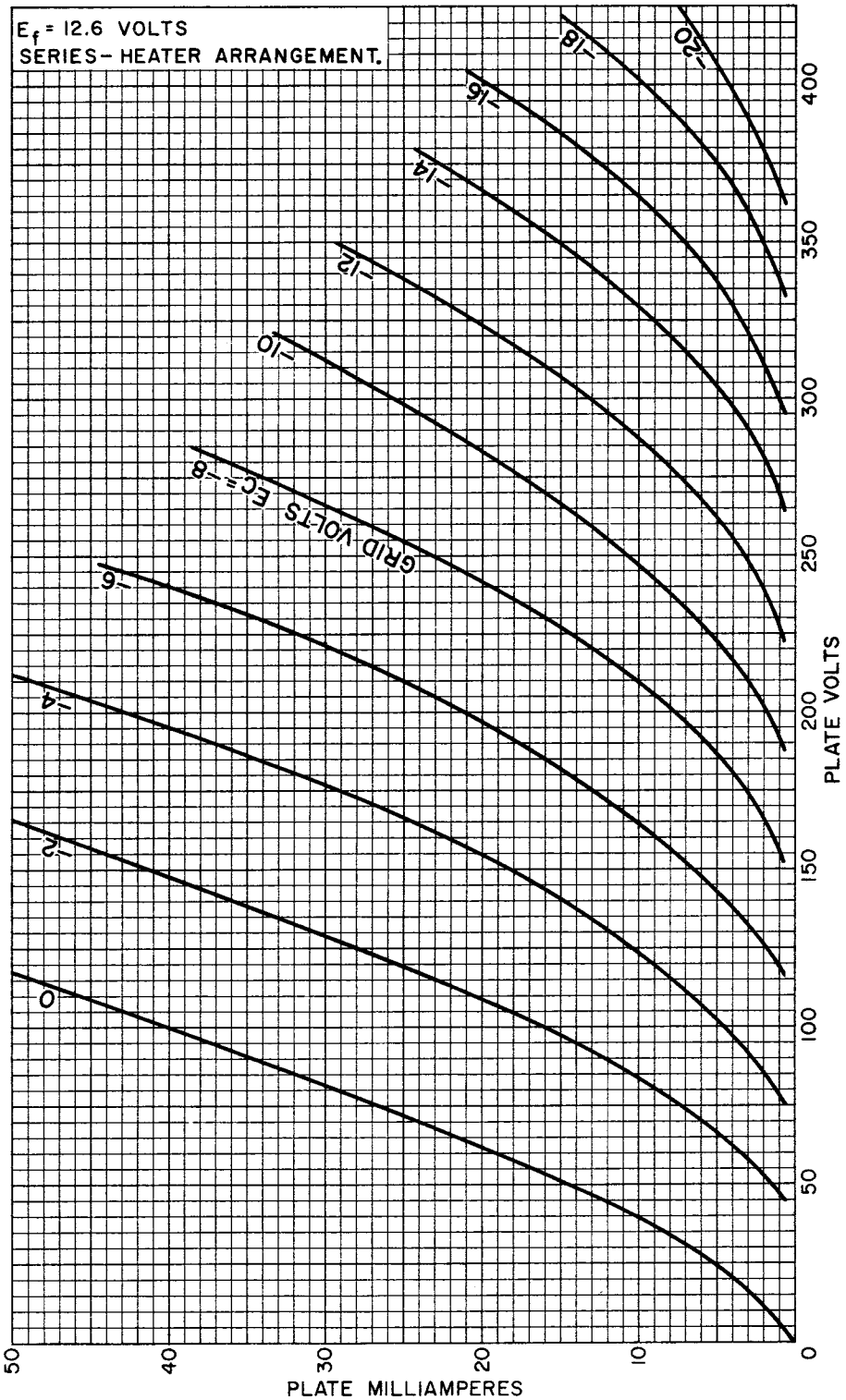
With "On" Time in Any 2-Minute Interval	*30 or Less*	*sec*
Plate Supply Voltage	270	volts
Zero-Bias Plate Current	36	ma
Grid Resistor	2.2	megohms
Grid Voltage (Approx.) for plate ma. = 2	-13	volts

Maximum Circuit Values:

Grid-Circuit Resistance	3.3 max.	megohms

[a] At heater volts = 12.6.
[b] At heater volts = 6.3.
[c] The dc component must not exceed 100 volts.
[d] Without external shield.

AVERAGE PLATE CHARACTERISTICS
Each Unit



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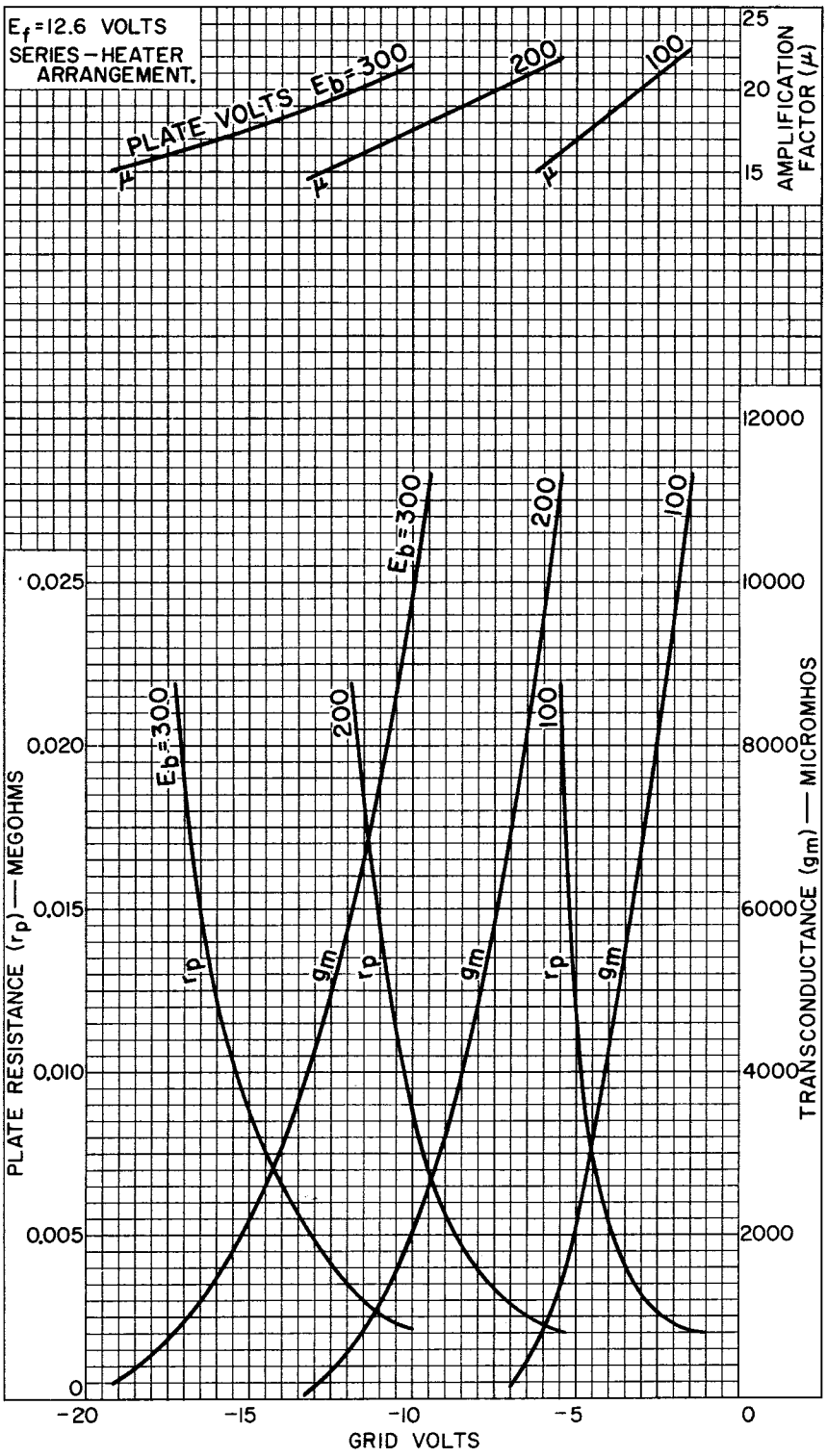
AVERAGE CHARACTERISTICS
Each Unit



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