Three-Unit Triode

With Medium-Mu Unit and Two High-Mu Units

DUODECAR TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Characteristics and Ratings *(Design-Maximum Values)*:			
Voltage (AC or DC)	6.3[a]	6.3 ± 0.6	volts
Current	0.600 ± 0.040	0.600[b]	amp
Warm-up time (Average)	11	–	sec
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 (Approx.):[d]

	Unit No. 1	*Unit No. 2*	*Unit No. 3*	
Grid to plate	1.3	1.3	1.3	μμf
Grid to cathode, internal shield, and heater	1.9	1.8	1.8	μμf
Plate to cathode, internal shield, and heater	1.8	0.7	1.8	μμf

Characteristics, Class A_1 Amplifier:

	Unit No. 1	*Units No. 2 or 3*	
Plate Voltage	250	250	volts
Grid Voltage	-8.5	-2	volts
Amplification Factor	17	100	
Plate Resistance (Approx.)	7700	62500	ohms
Transconductance	2200	1600	μmhos
Plate Current	10.5	1.2	ma
Grid Voltage (Approx.) for plate μa = 10	-24	–	volts

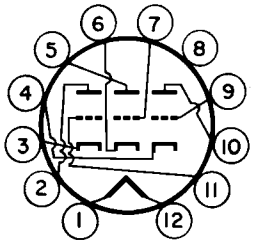
Mechanical:

Operating Position	Any
Type of Cathodes	Coated Unipotential
Maximum Overall Length	1.875"
Seated Length	1.250" to 1.500"
Diameter	1.062" to 1.188"
Bulb	T9
Base	Small-Button Duodecar 12-Pin (JEDEC No. E12-70)

6K11

Basing Designation for BOTTOM VIEW. 12BY

Pin 1 – Heater
Pin 2 – Plate of Unit No.3
Pin 3 – Cathode of Unit No.3
Pin 4 – Cathode of Unit No.1
Pin 5 – Plate of Unit No.2
Pin 6 – Cathode of Unit No.2
Pin 7 – Grid of Unit No.2
Pin 8 – Internal Shield
Pin 9 – Grid of Unit No.1
Pin 10 – Plate of Unit No.1
Pin 11 – Grid of Unit No.3
Pin 12 – Heater

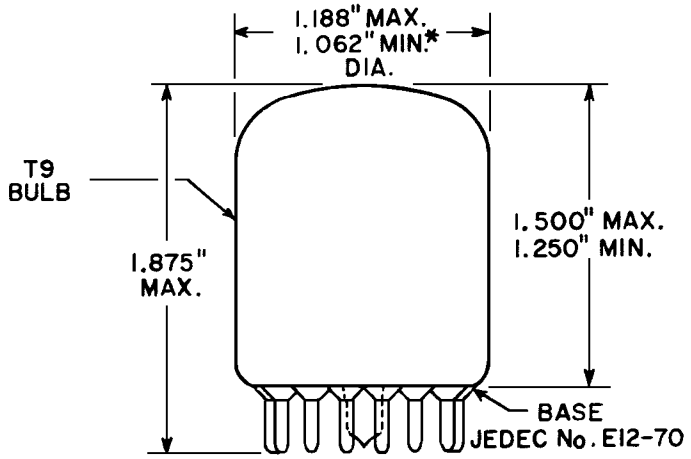


AMPLIFIER — Class A_1

Maximum Ratings, *Design-Maximum Values:*

	Unit No.1	*Units No. 2 or 3*	
PLATE VOLTAGE	330 max.	330 max.	volts
GRID VOLTAGE:			
Negative-bias value	50 max.	50 max.	volts
Positive-bias value	0 max.	0 max.	volts
CATHODE CURRENT	20 max.	–	ma
PLATE DISSIPATION	2.75 max.	0.3 max.	watts

[a] At heater amperes = 0.600.
[b] At heater volts = 6.3.
[c] Without external shield.
[d] The dc component must not exceed 100 volts.



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* APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.