

Three-Unit Triode

With Medium-Mu Unit and Two High-Mu Units

DUODECAR TYPE

Electrical:

Heater Characteristics and Ratings:

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

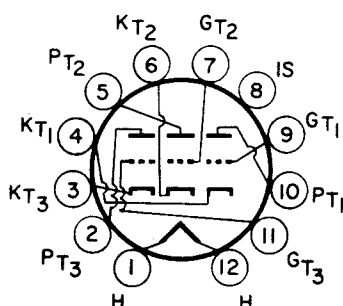
Direct Interelectrode Capacitances (Approx.):^d

	Unit No. 1	Unit No. 2	Unit No. 3	
Grid to plate	1.3	1.3	1.3	pf
Input: G to (K, IS, H)	1.9	1.8	1.8	pf
Output: P to (K, IS, H)	1.8	0.7	1.8	pf

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"
Dimensional Outline (JEDEC 9-56)	See <i>General Section</i>
Bulb	T9
Base	Small-Button Duodecar 12-Pin (JEDEC No. E12-70)
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 A₁

Unit No. 1	Unit No. 2 or 3
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Characteristics:

Plate Voltage	250	250	volts
Grid Voltage	-8.5	-2	volts



6K11/6Q11

	<i>Unit No. 1</i>	<i>Unit No. 2 or 3</i>	
Amplification Factor.	17	100	
Plate Resistance (Approx.). . .	7700	62500	ohms
Transconductance.	2200	1600	μ mhos
Plate Current	10.5	1.2	ma
Grid Voltage (Approx.) for plate $\mu a = 10$	-24	-	volts

Maximum Ratings, Design-Maximum Values:

Plate Voltage	330	330	volts
Grid Voltage:			
Negative-bias value	50	50	volts
Positive-bias value	0	0	volts
Cathode Current	20		ma
Plate Dissipation	2.75	0.3	watts

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

