

6FJ7

Medium-Mu Dual Triode

DUODECAR TYPE

GENERAL DATA

Electrical:

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

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.900 amp

Peak heater-cathode voltage (Each unit):

Heater negative with respect to cathode 200 max. volts

Heater positive with respect to cathode 200^a max. volts

Direct Interelectrode Capacitances (Approx.):^b

	Unit No. 1	Unit No. 2	
Grid to plate	3.8	5.0	pf
Grid to cathode and heater . . .	2.2	4.0	pf
Plate to cathode and heater . . .	0.48	0.54	pf

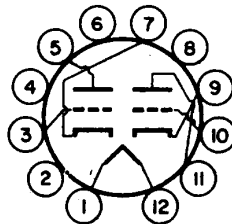
Characteristics, Class A₁ Amplifier:

	Unit No. 1	Unit No. 2	
Plate Voltage	250	150 250	volts
Grid Voltage	-8	0 -9.5	volts
Amplification Factor	22.5	- 15.4	
Plate Resistance (Approx.)	9000	- 2000	ohms
Transconductance	2500	- 7700	μmhos
Plate Current	8	68 ^c 41	ma
Grid Voltage (Approx.)			
for plate μa = 10	-18	- -	volts
Grid Voltage (Approx.)			
for plate μa = 50	-	- -23	volts

Mechanical:

- Operating Position Any
- Type of Cathodes Coated Unipotential
- Maximum Overall Length 2.375"
- Seated Length 1.750" to 2.000"
- Diameter 1.062" to 1.188"
- Bulb T9
- Base Small-Button Duodecar 12-Pin (JEDEC No. E12-70)
- Basing Designation for BOTTOM VIEW 12BM

- Pin 1 - Heater
- Pin 2 - No Internal Connection
- Pin 3 - Grid of Unit No. 2
- Pin 4 - Same as Pin 2
- Pin 5 - Plate of Unit No. 2
- Pin 6 - Do Not Use
- Pin 7 - Cathode of Unit No. 2
- Pin 8 - Same as Pin 2
- Pin 9 - Cathode of Unit No. 1
- Pin 10 - Grid of Unit No. 1
- Pin 11 - Plate of Unit No. 1
- Pin 12 - Heater



RADIO CORPORATION OF AMERICA
Electron Tube Division

Harrison, N. J.

DATA 1
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VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No. 1

Maximum Ratings, Design-Maximum Values:

DC PLATE VOLTAGE.	350	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	400	max.	volts
PLATE DISSIPATION	1	max.	watt

Maximum Circuit Values:

Grid-Circuit Resistance: For fixed-bias or cathode- bias operation.	2.2	max.	megohms
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VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No. 2

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^d

DC PLATE VOLTAGE.	550	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^e	2500	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	150	max.	ma
Average	50	max.	ma
PLATE DISSIPATION	10	max.	watts

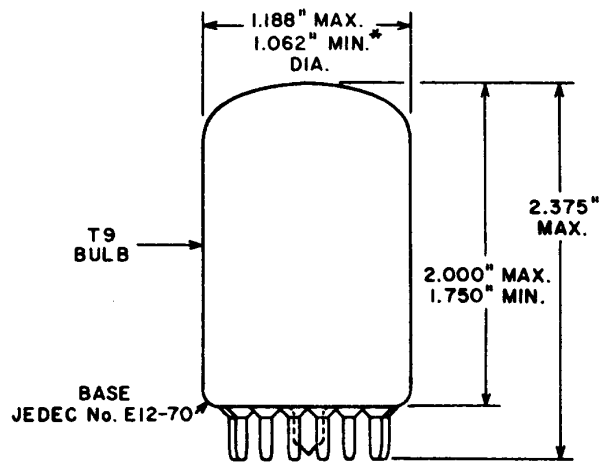
Maximum Circuit Values:

Grid-Circuit Resistance: For fixed-bias operation.	2.2	max.	megohms
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- ^a The dc component must not exceed 100 volts.
- ^b Without external shield.
- ^c This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
- ^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- ^e This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.



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92CS-11838

* APPLIES TO MINIMUM DIAMETER EXCEPT IN AREA OF SEAL.



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