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SPECIFICATION

Double diode, miniature type with indirectly heated separated oxide cathodes.

Heater

Heater voltage	5.3	V
Heater current	300	mA

Characteristics

R.M.S. anode supply voltage	2×150	V
Load resistor	10	K Ω
Filter capacitor	8	μ F
D.C. output current	≥ 17	mA

Operating Conditions

R.M.S. anode supply voltage (per anode)	100	125	150	170	V
Filter capacitor	8	8	8	8	μ F
Minimum limiting resistor (per anode)	130	250	350	430	Ω
D.C. output current	20	20	20	20	mA
D.C. output voltage	115	140	170	195	V

Note: The value of Minimum limiting resistor ($R_{lim \min}$) is calculated from:

$$R_{lim \min} = R_t + R_{lim}$$

$$R_t = R_s + N^2 R_p$$

where R_t = d.c. resistance contributed at each anode of the rectifier by the transformer.

R_s = d.c. resistance of the turns on each half secondary.

R_p = d.c. resistance of the turns on primary.

N = ratio of the turns of half of the secondary to the primary, (may be taken as the voltage ratio)

R_{lim} = limiting resistor. (If R_t is less than $R_{lim \min}$, R_{lim} must be added at each anode circuit)

Limiting Values

Maximum heater voltage	6.9	V
Minimum heater voltage	5.7	V
Maximum peak inverse anode voltage	450	V
Maximum D.C. output current	20	mA
Maximum peak anode current	90	mA
Maximum heater-cathode voltage	± 350	V

Capacitances

Anode to cathode, heater, internal and external shield (each diode)	3.4	pF
Cathode to anode, heater, internal and external shield (each diode)	3.8	pF
Anode No. 1 to anode No. 2	≤ 0.03	pF
Cathode to heater	≤ 2.4	pF

Direct equivalent type: 6AL5 EAA 91

6X211 (C.C.C.P.)

Notes:

1. During operating, the parameters should not be used over the limitations of the max. ratings. And also it is not permitted that two or more than two parameters equal its max. ratings, otherwise, the tube will lose its working ability.

2. The transient acting force, vertical to the pin axis, should not exceed 500 gm. and the continual acting force should not exceed 200 gm.

3. Using the tubes in the circuits, in which the heater are connected in series, is not recommended.

Tube base diagram



Manufactured by:

PEKING ELECTRON TUBE FACTORY

Peking, China.

1961 6 - 16,4001 - 250001