

12AX7WA, 12AX7WB, 12AX7WC

Miniature dual triode

pin #	Electrode name
1	Plate of 2 nd triode
2	Grid of 2 nd triode
3	Cathode of 2 nd triode
4,5,9	Heater
6	Plate of 1 st triode
7	Grid of 1 st triode
8	Cathode of 1 st triode

Electrical data of new tube

	12AX7WA	12AX7WB 12AX7WC	Com ment
Grid reverse current, μA , not more	0.2	0.2	3, 4
Heater current, mA not less	305	305	1
	153	153	2
	not more	375	1
	188	188	2
Plate current, mA not less	1.5	1.2	3, 5
Plate current at the beginning of the curve, μA not more	10	10	3, 6
Transconductance, mA/V, not less	1.4	1.4	3, 5
	not more	2.65	
Amplification factor, not less	85	95	3, 5
	not more	110	

Comments:

1. Plate voltage 6.3v
2. Heater voltage 12.6v
3. Heater voltage 6.3v or 12.6v
4. Plate voltage 250v, grid voltage -1.5v, grid circuit resistance 1 KOhm
5. Plate voltage 250v, grid voltage -1.5v
6. Plate voltage 250v, grid voltage -5.5v.

Electrical parameters that could be changed within exploitation

Transconductance, ma/v, not less	1.0
Grid reverse current, μa , not more	2.0

Limited values

	12AX7WA, 12AX7WB/12AX7WC	
Heater voltage, V, not less	6.0 or 12.0	
	not less	6.6 or 13.2
Plate voltage, V, not more	300	
Cathode to heater voltage:		
Positive, V, not more	100	
Negative, V not more	100	
Plate current, mA not more	10	
Plate dissipation power of each triode, W, not more	1.0	

Each triode grid circuit resistance, Moh, not more	1.0
Plate voltage of cold tube, V, not more	500
Max grid reverse current, V, not more	55
Balloon temperature at hottest point, C*	95

The tube can't be exploited at two or more limited conditions.

Interelectrode capacitances:

	12AX7WA, 12AX7WB
Input capacitance of each triode, nf, nominal	2.15
Transfer capacitance of each triode, nf, nominal	0.55
Output capacitance of each triode, nf, nominal	1.9
Plate to plate capacitance, nf, nominal	0.4