

October 1, 1958

LOW LEVEL TWIN TRIODE TYPE WL-7025

The WL-7025 is a 9-pin miniature twin triode designed for service as a low level input voltage amplifier for tape recorders and high quality audio preamplifiers. The structural design of the WL-7025 results in greatly reduced microphonism, hum and noise.

The WL-7025 may also be used to replace the 12AX7 to which it is electrically similar. The use of a WL-7025 in such replacement will result in substantial reduction in noise due to microphonism, induced hum and leakage.

ELECTRICAL:

Cathode	Coated Unipotential		
Heater:	Series	Parallel	
Voltage (ac or dc)	12.6	6.3	Volts
Current	0.15	0.30	Ampere
Direct Interelectrode Capacitances (Unshielded):			
	Unit 1	Unit 2	
Grid to Plate	1.4	1.4	uuf
Input	1.6	1.6	uuf
Output	0.4	0.3	uuf

MECHANICAL:

Bulb	T-6-1/2
Base	Miniature 9-Pin (JETEC E9-1)
Outline	6-2
Basing	9A
Mounting Position	Any

MAXIMUM RATINGS:

Design-Center Values		
Plate Voltage	300 max.	Volts
Heater-Cathode Voltage:		
Heater Positive or Negative with respect to Cathode	180 max.	Volts
Plate Dissipation	1.0 max.	Watt
Grid Voltage:		
Negative Bias Value	50 max.	Volts
Positive Bias Value	0 max.	Volts

CHARACTERISTICS:

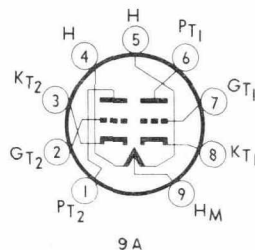
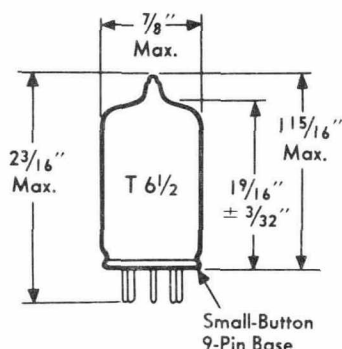
Plate Voltage	100	250	Volts
Grid Voltage	-1	-2	Volts
Amplification Factor	100	100	
Plate Resistance	80000	62500	Ohms
Transconductance	1250	1600	umhos
Equivalent Noise and Hum Voltage:			
Referred to Grid			
Average ♀	1.8 rms u	Volts	
Maximum ♂	7 rms u	Volts	

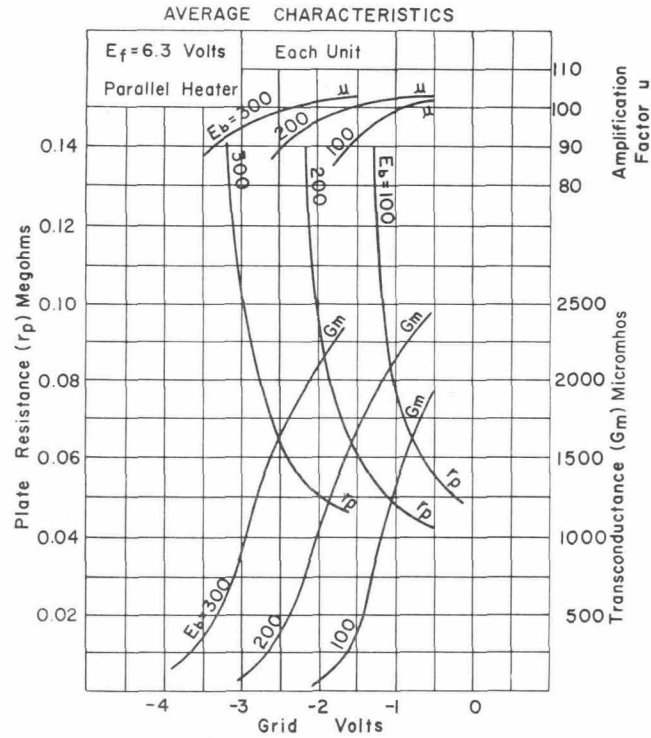
♂ Measured Under These Conditions:

- Heater Circuit: (Parallel Connection) 6.3 Volts AC, Centertap of Transformer Grounded.
- Plate Circuit: Plate Supply Volts = 250, Plate Load = 100,000 ohms.
- Cathode Circuit: Cathode Resistor = 2700 ohms by passed with 100 uf capacitor.
- Grid Circuit: Grid Resistor = 0 ohms.
- Frequency Range: 25 to 10,000 cycles / sec.

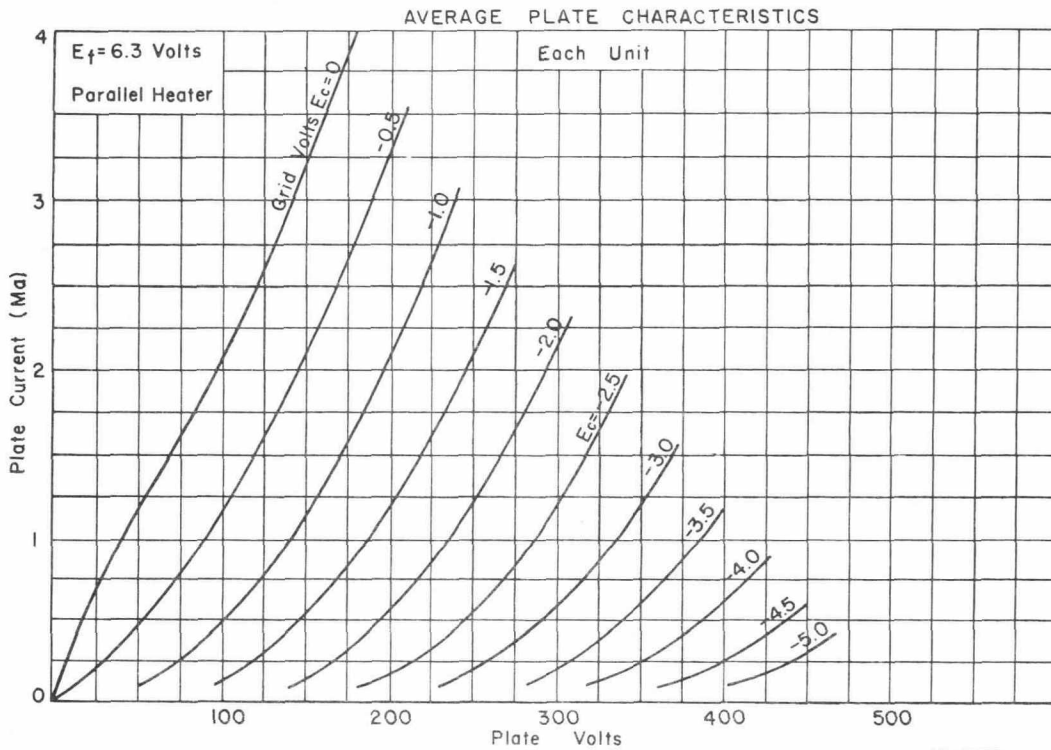
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- Heater Circuit: (Parallel Connection) 6.3 Volts AC, Centertap of Transformer Grounded.
- Plate Circuit: Plate Supply Volts = 250, Plate Load = 100,000 ohms.
- Cathode Circuit: Cathode Resistor = 2700 ohms.
- Grid Circuit: Grid Resistor = 50,000 ohms.





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