

NUVISTOR TRIODE

General-Purpose Type for Critical Industrial Applications

Type	Name	Description	Special Tests and Controls									
			Shock	Fatigue	Variable-Frequency Vibration	High Altitude	Heater Cycling	Intermittent Shorts	Inter-electrode Leakage	Life Tests		
										Early-Hour Stability	100-Hour Performance	1000-Hour Performance
7586	Medium-Mu Triode	Heater-cathode type; metal shell with indexing lugs; weight approximately 1/15 ounce (1.9 grams).	✓	✓	✓	✓	✓	✓	✓	✓	✓	

SPECIAL RED TUBES

For Critical Industrial Applications Where 10000-Hour Life,
Extreme Dependability, and Exceptional Stability are Paramount

	Type	Proto- type	Name	Description and/or Difference Between Type and Prototype			Special Tests and Controls										
							Shock	Fatigue	Vibration	Base Tension	AF Noise, Microphonics	Stability	Temperature	High-Altitude	Heater-Cycling	Life Test	
				Rating or Characteristic	Premium Type	Proto- Type										500-Hour	1000-Hour
5690	—		Full-Wave Vacuum Rectifiers	Heater-Cathode Type. Each unit has its own heater and cathode with individual base-pin connections. Full ratings up to 40000 feet.			✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓
5691	6SL7-GT	High-Mu Twin Triodes	Heater Current	0.6	0.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			Max. Plate Volts	275	300												
			Peak H-K Volts	± 100	± 90												
			Heaters in series for fail-safe operation	Yes	No												
5692	6SN7-GT	Medium-Mu Twin Triodes	Controlled Plate-Current Balance	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			Max. Plate Volts	275	300												
			Plate Dissip., Watts	1.75	2.5												
			Peak H-K Volts	± 100	± 200												
5693	6SJ7	Sharp-Cutoff Pentode	Heaters in series for fail-safe operation	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			Plate Dissip., Watts	2	2.5												
			Grid-No. 2 Input Watts	0.3	0.7												
			Peak H-K Volts	± 100	± 90												

For key to terminal connections see page 30.

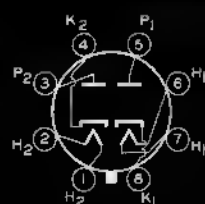
⊘ Glass-octal 8-pin type.

† Metal-octal 8-pin type.



INDEX=LARGE LUG
●=PIN CUT OFF

7586



5690

NUVISTOR TRIODE

General-Purpose Type for Critical Industrial Applications

Cathode		Maximum Dimensions Inches		Maximum Ratings					Characteristics — Class A ₁ Amplifier									Type
				Plate Supply	Plate	Plate Dissipation	Grid Current	Plate Current	Plate Supply	Plate	Grid Supply	Cathode Resistor	Grid-Circuit Resistance	Amplification Factor	AC Plate Resistance (Approx.)	Trans-conductance Micro-mhos	Plate Current	
Volts	Amps.	Length	Diam.	Volts	Volts	Watts	Ma.	Ma.	Volts	Volts	Volts	Ohms	Ohms		Ohms		Ma.	
6.3	0.14	0.800	0.440	330	110	1.0	2.0	20	—	26.5	0	—	500000	31	4400	7000	2.8	7586
									75	—	0	130	—	33	2900	11500	10.5	

SPECIAL RED TUBES

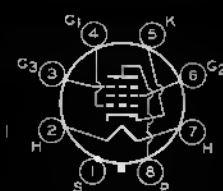
For Critical Industrial Applications Where 10000-Hour Life,
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Cathode		Maximum Dimensions Inches		Class of Service	Maximum Ratings				Operating Conditions and Characteristics								 Type
					Plate Volts	Plate Dissipation Watts	Cathode Current Ma.	Grid-No. 2 Input Watts	Plate Supply Volts	Grid-No. 1 Volts(v) or Cathode Resistance Ohms	Grid-No. 2 Supply Volts	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance Micro-mhos	Amplification Factor	Power Output Watts	
Volts	Amps.	Length	Diam.														
12.6 6.3	1.2 2.4	4 1/4	1 23/32	Full-Wave Rectifier with Capacitive Input Filter	AC Volts per Plate (RMS), 350 Filter Input Capacitor, 10 μ f DC Output Volts at 110 Ma., 365 DC Output Volts at 55 Ma., 415						Max. Peak Inverse Plate Volts, 1120 Max. Peak Plate Ma. per Plate, 375 Max. Av. Plate Ma. per Plate, 62.5 Total Effect-Supply Imped. per Plate, 350 Ohms					5690	
				Full-Wave Rectifier with Inductive Input Filter	AC Volts per Plate (RMS), 350 Filter Input Choke, 10 henries DC Output Volts at 135 Ma., 300 DC Output Volts at 67.5 Ma., 305						Max. Peak Inverse Plate Volts, 1120 Max. Peak Plate Ma. per Plate, 375 Max. Av. Plate Ma. per Plate, 75						
6.3	0.6	2 7/8	1 9/32	Industrial Service (Each Unit)	275	1.0	10	—	250	-2v	—	2.3	44000	1600	70	—	5691
					Max. Plate Current for Grid Volts at -5.5, 15 μ a Difference in Plate Current Between Units, 0.9 Max. Ma. at Grid Volts, -2										Max. Reverse Grid Current, 0.2 μ a		
6.3	0.6	2 7/8	1 9/32	Industrial Service (Each Unit)	275	1.75	15	—	250	-9v	—	6.5	9100	2200	20	—	5692
					Max. Plate Current for Grid Volts at -24, 15 μ a Difference in Plate Current Between Units, 2 Max. Ma. at Grid Volts, -9										Max. Reverse Grid μ a, 0.2		
6.3	0.3	2 5/8	1 5/16	Industrial Service	300	2.0	10	0.3	250	-3v	100	3.0	1.0**	1650	—	—	5693
					Max. Plate μ a 80, at Grid-No. 1 Volts, -7.5 Max. Plate μ a 750, at Grid-No. 3 Volts, -70										Max. Reverse Grid-No. 1 Current, 0.1 μ a		

** Minimum megohms.



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