

PREMIUM TUBES — Cont'd

Designed to Meet Military Specifications and Critical Industrial Applications

 Type	Proto- type	Name	Description and/or Difference Between Type and Prototype			Special Tests and Controls											
						Rating or Characteristic	Premium Type	Proto- Type	Shock	Fatigue	Vibration	Glass Strain	RF Noise, Microphonics	Stability	Inoperative	High-Altitude	Heater-Cycling
5726/ 6AL5-W/ 6097	6AL5	Twin Diode*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	—	✓	✓	✓	✓	—	✓	
5727	2D21	Thyratron Tetrode*	Heater-Cathode Type. Relay, grid-controlled rectifier, and pulse-modulator service. Operates in a high-sensitivity circuit directly from a vacuum photo-tube.			✓	✓	✓	✓	—	✓	✓	✓	✓	—	✓	
5727/ 2D21-W	2D21	Thyratron Tetrode*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	—	✓	✓	✓	✓	—	✓	
5749	6BA6	Remote-Cutoff Pentode*	Heater-Cathode Type. For high-grain rf or if amplifier service, and automatic-gain-control circuits.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	
5749/ 68A6-W	6BA6	Remote-Cutoff Pentode*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	
5750	6BE6	Pentagrid Converter*	Heater-Cathode Type. For renewal use only.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
5751	12AX7	High-Mu Twin Triode§	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
5751-WA	12AX7	High-Mu Twin Triode§	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
5814-A	12AU7	Medium-Mu Twin Triode§	Heater Current Amp./Sect.	0.175	0.15	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
			Peak H-K Volts	± 100	± 200												
			Controlled Plate- Current Balance	Yes	No												
5814-WA	12AU7	Medium-Mu Twin Triode§	This type is designed to meet the indicated military specifications.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
5840	—	Sharp-Cutoff Pentode*	Heater-Cathode Type. Useful as an rf or if amplifier tube in broad-band circuits of mobile and aircraft equipment. Can be used up to 400 Mc. as an rf amplifier.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
5896	—	Twin Diode*	Heater-Cathode Type. A low-current rectifier and detector at frequencies through the uhf regions.			✓	✓	✓	✓	—	✓	✓	✓	✓	—	✓	
5899	—	Semiremote- Cutoff Pentode*	Heater-Cathode Type. For use in age rf and if amplifier circuits up to 400 Mc.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
5902	—	Beam-Power Tube*	Heater-Cathode Type. For use as an audio-amplifier and series-regulator tube in power supplies.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
6005	6AQ5	Beam-Power Tube*	Max. Bulb Temperature, °C	225	250	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
6005/ 6AQ5-W	6AQ5	Beam-Power Tube*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
6005/ 6AQ5-W/ 6095	6AQ5	Beam-Power Tube*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	
6021	—	Medium-Mu Twin Triode*	For general-purpose oscillator and amplifier applications. Each unit has a separate cathode.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	

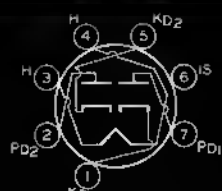
For key to terminal connections see page 30.

* 7-pin miniature type.

§ 9-pin miniature type.

* Subminiature type with flexible leads.

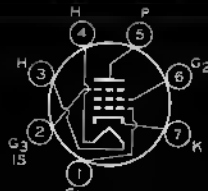
■ DC component must not exceed 100 volts.



5726/6AL5-W/6097



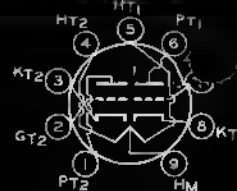
5727
5727/2D21-W



5749 5749/6BA6-W



5750



5751 5751-WA
5814-A 5814-WA

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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.															
6.3	0.3	1 3/4	3/4	Half-Wave Rectifier	For data refer to MIL-E-1/235A specification [▲]												5726/ 6AL5-W/ 6097	
6.3	0.6	2 1/8	3/4	Relay and Grid-Controlled Rectifier Service	Maximum Ratings: Peak Forward Anode Volts, 650 Peak Inverse Anode Volts, 1300 Fault Cathode Amp., 10 Peak Cathode Amp., 0.5 Av. Cathode Amp., 0.1												5727	
6.3	0.6	2 1/8	3/4	Control Service	For data refer to MIL-E-1/83B specification [▲]												5727/ 2D21-W	
6.3	0.3	2 1/8	3/4	Class A ₁ Amplifier	300	3.0	—	0.6	100 250	68 68	100 100	10.8 11	250000 1000000	4300 4400	— —	— —	5749	
6.3	0.3	2 1/8	3/4	Class A ₁ Amplifier	For data refer to MIL-E-1/8 specification [▲]												5749/ 6BA6-W	
6.3	0.3	2 5/16	7/8	Converter Service Separate Excitation	300	1.0	14	1.0	100	—	100	2.6	400000	Osc. Grid Volts (rms.), 10		5750		
6.3 12.6	0.35 0.175	2 5/16	7/8	Class A ₁ Amplifier Each Unit	For data refer to MIL-E-1/10A specification [▲]												5751	
6.3 12.6	0.35 0.175	2 5/16	7/8	Class A ₁ Amplifier Each Unit	For data refer to MIL-E-1/237 specification [▲]												5751-WA	
6.3 12.6	0.35 0.175	2 5/16	7/8	Class A ₁ Amplifier Each Unit	For data refer to MIL-E-1/12A specification [▲]												5814-A	
6.3 12.6	0.35 0.175	2 5/16	7/8	Class A ₁ Amplifier Each Unit	For data refer to MIL-E-1/238A specification [▲]												5814-WA	
6.3	0.15	1 3/8†	0.4	Class A ₁ Amplifier	165	1.1	16.5	0.55	100	150	100	7.5	260000	5000	—	—	5840	
6.3	0.3	1 3/8†	0.4	Full-Wave Rectifier	For data refer to MIL-E-1/174C specification [▲]												5896	
6.3	0.15	1 3/8†	0.4	Class A ₁ Amplifier	165	1.1	16.5	0.55	100	120	100	7.2	260000	4500	Grid-No. 1 Volts for Cutoff, —14		5899	
6.3	0.45	1 3/4†	0.4	Class A ₁ Amplifier	165	4.0	50	1.0	110	270	110	30	15000	4200	Grid-No. 1 Volts for Cutoff, —40		5902	
6.3	0.45	2 5/8	3/4	Class A ₁ Amplifier	275	11	—	2.2	180 250	— 8.5v —12.5v	180 250	29 45	58000 52000	3700 4100	— —	2 4.5	6005	
6.3	0.45	2 5/8	3/4	Class A ₁ Amplifier	For data refer to MIL-E-1/13B specification [▲]												6005/ 6AQ5-W	
6.3	0.45	2 5/8	3/4	Class A ₁ Amplifier	For data refer to MIL-E-1/239 specification [▲]												6005/ 6AQ5-W/ 6095	
6.3	0.3	1 3/4†	0.4	Class A ₁ Amplifier Each Unit	165	1.1	—	—	100	150	—	6.5	6500	5400	35	Grid Volts for Cut-off, —6.5		6021

[▲] A copy of this specification may be obtained from the Director of the Armed Services Electro-Standards Agency (ASESA) at Fort Monmouth, New Jersey.

[‡] Excluding flexible leads.

