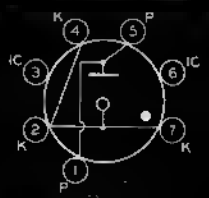
PREMIUM TUBES

Designed to Meet Military Specifications and Critical Industrial Applications

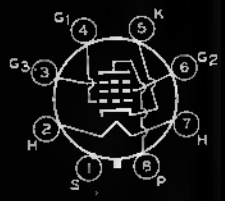
Type	Prototype	Name	Description and/or Difference Between Type and Prototype: Rating or Characteristic	Premium Type	Prototype	Shock	Fatigue	Vibration	Glass Strain	AF Noise, Microphonics	Stability	Temperatures	High-Altitude	Life Test: Heater-Cycling	Life Test: Room Temp.	Life Test: Elevated Bulb Temp.
0A2-WA	0A2	Voltage Regulator*	This type is designed to meet the indicated military specification.			√	√	√	√	—	—	√	√	—	—	—
0B2-WA	0B2	Voltage Regulator*	This type is designed to meet the indicated military specification.			√	√	√	√	—	—	√	√	—	—	√
2D21-W	2D21	Thyratron Tetrode*	This type is designed to meet the indicated military specification.			√	√	√	—	√	—	—	—	—	—	—
6AC7-W	6AC7	Sharp-Cutoff Pentode■■	This type is designed to meet the indicated military specification.			√	√	√	—	√	—	—	—	—	—	—
6AU6-WA	6AU6	Sharp-Cutoff Pentode*	This type is designed to meet the indicated military specification.			√	√	√	√	—	√	√	√	√	—	√
6J4-WA	6J4	High-Mu Triode*	This type is designed to meet the indicated military specification.			√	√	—	√	—	√	√	√	√	√	—
6J6-WA	6J6	Medium-Mu Twin Triode*	This type is designed to meet the indicated military specification.			√	√	√	√	√	√	√	√	√	—	√
12AT7-WA	12AT7	High-Mu Twin Triode §	This type is designed to meet the indicated military specification.			√	√	√	√	√	√	√	√	√	√	—
5636	—	Sharp-Cutoff Pentode•	Heater-Cathode Type. For gated amplifier, delay and mixer circuits up to 400 Mc. and gain-controlled amplifier circuits.			√	√	√	√	√	√	√	√	√	—	√
5639	—	Sharp-Cutoff Pentode•	Heater-Cathode Type. For use in high-gain wide-band circuits.			√	√	√	√	√	√	√	√	√	—	√
5651	—	Voltage Regulator*	For use in equipment where extreme voltage stability is required.			—	—	√	—	√	—	√	—	—	√	—
5651-WA	—	Voltage Regulator*	This type is designed to meet the indicated military specification.			√	√	√	√	√	√	√	√	—	√	√
5654	6AK5	Sharp-Cutoff Pentode*	None — For use as an rf or if amplifier in high-frequency broad-band communications receivers.	—	—	√	√	√	√	√	√	√	√	√	—	√
5654/6AK5-W	6AK5	Sharp-Cutoff Pentode*	This type is designed to meet the indicated military specification.			√	√	√	√	√	√	√	√	√	—	√
5654/6AK5-W/6096	6AK5	Sharp-Cutoff Pentode*	This type is designed to meet the indicated military specification.			√	√	√	√	√	√	√	√	√	—	√
5670	2C51	Medium-Mu Twin Triode §	This type is designed to meet the indicated military specification.			√	√	√	√	√	√	√	√	√	—	√
5670-WA	2C51	Medium-Mu Twin Triode §	This type is designed to meet the indicated military specification.			√	√	√	√	√	√	√	√	√	—	√
5686	—	Beam Power Tube §	Heater-Cathode Type. For renewal use only.			√	√	√	√	—	√	√	√	√	√	—
5718	—	Medium-Mu Triode•	Heater-Cathode Type. Uhf amplifier and oscillator. Useful power output at 500 Mc., nearly one watt.			√	√	√	√	√	√	√	√	√	—	√
5719	—	High-Mu Triode•	Heater-Cathode Type. Useful as an audio amplifier in mobile receivers.			√	√	√	√	√	√	√	√	√	—	√
5725	6AS6	Sharp-Cutoff Pentode*	Bulb Temperature, Max. °C (at hottest point)	165	120	√	√	√	√	√	√	√	√	√	√	—
5726	6AL5	Twin Diode*	Controlled Plate-Current Balance	Yes	No	√	√	√	√	—	√	√	√	√	—	√
5726/6AL5-W	6AL5	Twin Diode*	This type is designed to meet the indicated military specification.			√	√	√	√	—	√	√	√	√	—	√

For key to terminal connections see page 30.
* 7-pin miniature type. • Subminiature type with flexible leads. ■■ Small wafer octal 8-pin type.
§ 9-pin miniature type.



0A2-WA 0B2-WA
5651 5651-WA

2D21-W

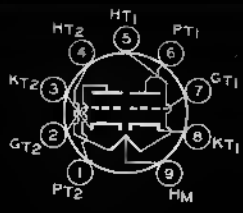


6AC7-W

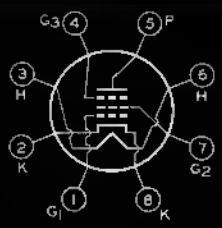
6AU6-WA

6J4-WA

6J6-WA



12AT7-WA



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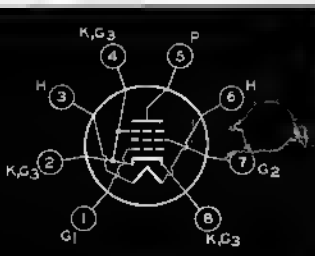

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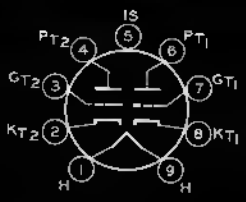
PREMIUM TUBES

Designed to Meet Military Specifications and Critical Industrial Applications

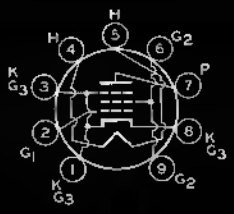
Cathode Volts	Cathode Amps.	Maximum Dimensions Inches Length	Maximum Dimensions Inches Diam.	Class of Service	Maximum Ratings: Plate Volts	Maximum Ratings: Plate Dissipation Watts	Maximum Ratings: Cathode Current Ma.	Maximum Ratings: Grid-No. 2 Input Watts	Operating Conditions and Characteristics: Plate Supply Volts	Grid-No. 1 Volts(v) or Cathode Resistance Ohms	Grid-No. 2 Supply Volts	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance Micromhos	Amplification Factor	Power Output Watts	Type
Cold Cathode		2 5/8	3/4	Voltage Regulator	For data refer to MIL-E-1/290B specification▲												0A2-WA
Cold Cathode		2 5/8	3/4	Voltage Regulator	For data refer to MIL-E-1/291 specification▲												0B2-WA
6.3	0.6	2 1/8	3/4	High-Sensitivity Control Service	For data refer to MIL-E-1/756B specification▲												2D21-W
6.3	0.45	2 5/8	—	Class A_1 Amplifier	For data refer to MIL-E-1/354 specification▲												6AC7-W
6.3	0.3	2 1/8	3/4	Class A_1 Amplifier	For data refer to MIL-E-1/1 specification▲												6AU6-WA
6.3	0.4	2 1/8	3/4	Class A_1 Amplifier for UHF Service	For data refer to MIL-E-1/619D specification▲												6J4-WA
6.3	0.45	2 1/8	3/4	Class A_1 Amplifier Each Unit	For data refer to MIL-E-243B specification▲												6J6-WA
6.3 12.6	0.3 0.15	2 3/16	7/8	Class A_1 Amplifier Each Unit	For data refer to MIL-E-1/3A specification▲												12AT7-WA
6.3	0.15	1 3/8‡	0.383	Class A_1 Amplifier	165	1.1	—	0.7	100 100	150 150	100 100	5.6 4	110000 50000	3200 Grid-No. 3 Volts, 0 1950 Grid-No. 3 Volts, −1			5636
6.3	0.45	1 3/4‡	0.4	Class A_1 Amplifier	165	4.0	40	1.0	150	100	100	21	50000	9000	—	—	5639
Cold Cathode		2 1/8	3/4	Voltage-Reference Tube	Ambient Temp., −55° to +90°C; Approx. DC Starting Volts, 107; Max. Starting Ma., 100; Approx. DC Operating Volts, 87; Regulation Range, 1.5 to 3.5 Ma.; Min. DC Anode-Supply Volts, 115; Regulation Volts, 115												5651
Cold Cathode		2 1/8	3/4	Voltage-Reference Tube	For data refer to MIL-E-1/825A specification▲												5651-WA
6.3	0.175	1 3/4	3/4	Voltage-Reference Tube	200	1.65	—	0.55	180	180	120	2.4	500000	5100	—	—	5654
6.3	0.175	1 3/4	3/4	Voltage-Reference Tube	For data refer to MIL-E-1/4A specification▲												5654/6AK5-W
6.3	0.175	1 3/4	3/4	Voltage-Reference Tube	For data refer to MIL-E-1/236 specification▲												5654/6AK5-W/6096
6.3	0.35	1 3/4	7/8	Class A_1 Amplifier Each Unit	For data refer to MIL-E-1/5C specification▲												5670
6.3	0.35	1 3/4	7/8	Class A_1 Amplifier Each Unit	For data refer to MIL-E-1/247 specification▲												5670-WA
6.3	0.35	2 3/16	7/8	Class A_1 Amplifier	250	7.5	—	3.0	250	−12.5v	250	27	45000	3100	—	2.7	5686
6.3	0.15	1 3/8‡	0.4	Class C Amplifier and Oscillator	Maximum Ratings, Absolute Values: DC Plate Volts, 165; DC Grid Ma., 5.5; DC Grid Volts, −55; DC Plate Ma., 22; Plate Dissipation, 3.3 Watts												5718
6.3	0.15	1 3/8‡	0.4	Class A_1 Amplifier	165	0.55	—	—	150	680	—	1.85	30500	2300	70	—	5719
6.3	0.175	1 3/4	3/4	Class A_1 Amplifier	200	1.65	20	0.55	120	−2v	120	5.2	—	3200	—	—	5725
6.3	0.3	1 3/4	3/4	Half-Wave Rectifier	Maximum Ratings, Absolute Values: Peak Inverse Plate Volts, 360; Peak Plate Ma. per Plate, 60; DC Output Ma. per Plate, 10; Peak Heater-Cathode Volts, ±360												5726
6.3	0.3	1 3/4	3/4	Half-Wave Rectifier	For data refer to MIL-E-1/7B specification▲												5726/6AL5-W

▲ 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.

5654 5654/6AK5-W
5654/6AK5-W/6096



5670 5670-WA



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5718 5719

5725

5726 5726/6AL5-W