

Designed to Meet Military Specifications and Critical Industrial Applications

RCA Type	Proto- type	Name	Description and/or Difference Between Type and Prototype			Special Tests and Controls										
						Shock	Fatigue	Vibration	Glass Strain	AF Noise, Microphonics	Stability	Inoperatives	High-Altitude	Life Test		
			Rating or Characteristic	Premium Type	Proto- Type									Heater-Cycling	Room Temp.	Elevated Bulb Temp.
6072	12AY7	Medium-Mu Twin Triode §	Heater Current, Amperes, for Heater Volts = 6.3 For renewal use only.	0.35	0.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6073	0A2	Voltage Regulator*	None Like 0A2, but intended for volt- age-regulator applications critical as to shock and vibration.	—	—	✓	✓	✓	—	✓	—	—	—	—	—	—
6073/ 0A2	0A2	Voltage Regulator*	None Like 0A2, but intended for volt- age-regulator applications critical as to shock and vibration.	—	—	✓	✓	✓	✓	✓	—	—	—	—	—	—
6074	0B2	Voltage Regulator*	None Like 0B2 but intended for volt- age-regulator applications critical as to shock and vibration.	—	—	✓	✓	✓	—	✓	—	—	—	—	—	—
6074/ 0B2	0B2	Voltage Regulator*	None Like 0B2 but intended for volt- age-regulator applications critical as to shock and vibration.	—	—	✓	✓	✓	✓	✓	—	—	—	—	—	—
6080-WA	6AS7-G	Low-Mu Twin Power Triode §	This type is designed to meet the indicated military specification.			✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓
6099	6J6	Medium-Mu Twin Triode*	Special Air Force application only. For other military uses, the 6101/ 6J6-WA is recommended.			✓	✓	✓	✓	—	✓	✓	✓	✓	✓	✓
6101	6J6	Medium-Mu Twin Triode*	Plate Dissip., Watts	0.85	1.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
			Plate Res., Ohms	6300	7100											
			Transcon., μ mbos	6000	5300											
			Peak H-K Volts	± 180	± 100											
6101/ 6J6-WA	6J6	Medium-Mu Twin Triode*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓
6111	—	Medium-Mu Twin Triode*	General-purpose amplifier. Also used as a combined oscillator and mixer tube in vhf applications.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6112	—	High-Mu Twin Triode*	Heater-Cathode Type. Low-level audio amplifier. Designed to meet indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6136	6AU6	Sharp-Cutoff Pentode*	Input Capacitance (μ mf)	6.0	5.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6186	6AG5	Sharp-Cutoff Pentode*	None RF Amplifier.	—	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6186/ 6AG5-WA	6AG5	Sharp-Cutoff Pentode*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6189/ 12AU7-WA	12AU7	Medium-Mu Twin Triode §	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6201	12AT7	High-Mu Twin Triode §	None Mixer, oscillator and amplifier at frequencies up to 300 Mc.	—	—	✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓
6205	5840	Sharp-Cutoff Pentode*	Grid-No. 3 brought out to separate pin	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6206	5899	Semiremote- Cutoff Pentode*	Grid-No. 2 Ma. Similar to 5899 but uses a sepa- rate terminal for grid No. 3.	2.2	2.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6626/ 0A2-WA	0A2	Voltage Regulator*	This type is designed to meet the indicated military specification.			✓	✓	✓	✓	—	✓	✓	—	—	—	✓

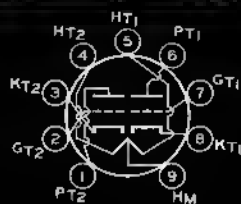
For key to terminal connections see page 30.

* 7-pin miniature type.

§ 9-pin miniature type.

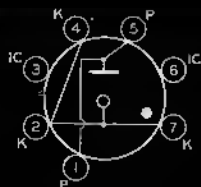
* Large wafer octal 8-pin type with metal sleeve.

* Subminiature type with flexible leads.



6072

6189/12AU7-WA 6201

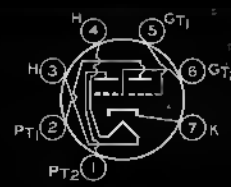


6073

6073/0A2 6074 6074/0B2



6080-WA



6099 6101

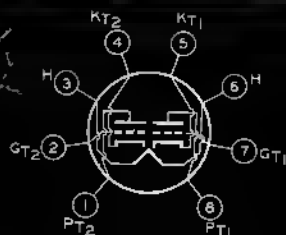
6101/6J6-WA

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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	
6.3 12.6	0.35 0.175	2 ³ / ₁₆	7 ₈	Class A ₁ Amplifier Each Unit	300	1.5	—	—	250	—4v	—	3.0	25000	1750	44	Grid Volts for Cut-off, —8	6072
Cold Cathode		2 ⁵ / ₈	3 ₄	Voltage Regulator	Ambient Temp., —55 to +90°C Approx. DC Starting Volts, 156 Min. DC Anode-Supply Volts, 185								Approx. DC Operating Volts, 151 Regulation Range, 5 to 30 Ma. Regulation Volts, 2				6073
Cold Cathode		2 ⁵ / ₈	3 ₄	Voltage Regulator	Ambient Temp., —55 to +90°C Approx. DC Starting Volts, 156 Min. DC Anode-Supply Volts, 185								Approx. DC Operating Volts, 151 Regulation Range, 5 to 30 Ma. Regulation Volts, 2				6073/ 0A2
Cold Cathode		2 ⁵ / ₈	3 ₄	Voltage Regulator	Ambient Temp., —55 to +90°C Approx. DC Starting Volts, 115 Min. DC Anode-Supply Volts, 133								Approx. DC Operating Volts, 108 Regulation Range, 5 to 30 Ma. Regulation Volts, 1				6074
Cold Cathode		2 ⁵ / ₈	3 ₄	Voltage Regulator	Ambient Temp., —55 to +90°C Approx. DC Starting Volts, 115 Min. DC Anode-Supply Volts, 133								Approx. DC Operating Volts, 108 Regulation Range, 5 to 30 Ma. Regulation Volts, 1				6074/ 0B2
6.3	2.5	4 ¹ / ₄	1.72	DC Amplifier	For data refer to MIL-E-1/510B specification [†]												6080-WA
6.3	0.45	2 ¹ / ₈	3 ₄	Class A ₁ Amplifier Each Unit	For government end use only												6099
6.3	0.45	2 ¹ / ₈	3 ₄	Class A ₁ Amplifier Each Unit	330	0.85	—	—	100	Cath. Res., 50 Ohms Common to Both Units	—	3.5	6300	6000	38	—	6101
6.3	0.45	2 ¹ / ₈	3 ₄	Class A ₁ Amplifier Each Unit	For data refer to MIL-E-1/243A specification [†]												6101/ 6J6-WA
6.3	0.3	1 ³ / ₈ †	0.4	Class A ₁ Amplifier Each Unit	165	1.1	Neg. DC Grid Volts, 55	—	100	220	—	8.5	4000	5000	20	Grid Volts for Cut-off, —9	6111
6.3	0.3	1 ³ / ₈ †	0.4	Class A ₁ Amplifier Each Unit	For data refer to MIL-E-1/190C specification [†]												6112
6.3	0.3	2 ¹ / ₈	3 ₄	Class A ₁ Amplifier	300	3.0	—	0.65	100 250	150 68	100 150	5 10.6	500000 1000000	3900 5200	Cutoff Volts, —4.2 Cutoff Volts, —6.5		6136
6.3	0.3	2 ¹ / ₈	3 ₄	Class A ₁ Amplifier	330	2.5	—	0.55	250	200	150	7.0	—	5000	—	—	6186
6.3	0.3	2 ¹ / ₈	3 ₄	Class A ₁ Amplifier	For data refer to MIL-E-1/244A specification [†]												6186/ 6AG5-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-1/246A specification [†]												6189/ 12AU7-WA
6.3 12.6	0.3 0.15	2 ³ / ₁₆	7 ₈	Class A ₁ Amplifier Each Unit	300	2.5	Neg. DC Grid Volts, 50	—	100 250	270 200	— —	3.3 10	14300 10900	4000 5500	57 60	— —	6201
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	Cutoff Volts, —9		6205
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	—	—	6206
Cold Cathode		2 ⁵ / ₈	3 ₄	Voltage Regulator	For data refer to MIL-E-1/939B specification [†]												6626/ 0A2-WA

[†] A copy of this specification may be obtained from the Director of the Armed Services Electro-Standards Agency (ASESA) at Fort Monmouth, New Jersey.
[‡] A copy of this specification may be obtained from the Bureau of Ships, Department of the Navy, Washington 25, D. C.

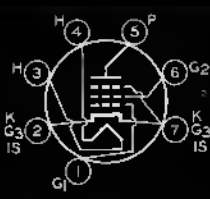
[†] Excluding flexible leads.



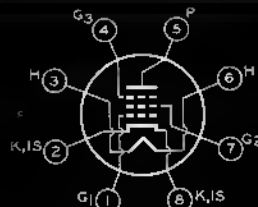
6111 6112



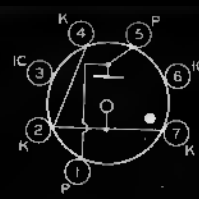
6136



6186
6186/6AG5-WA



6205 6206



6626/0A2-WA