



 Type	Description
FOR ELECTRONIC COMPUTERS AND OTHER "ON-OFF" CONTROL APPLICATIONS	
5915	Pentagrid Amplifier. For gated amplifier service. Grids No. 1 and No. 3 can each be used as independent control electrodes. 7-pin miniature base.
5963	Medium-Mu Twin Triode. Especially useful in multivibrator applications. Noval 9-pin miniature base with separate terminals for each cathode. Mid-tapped heater for 6.3-volt or 12.6-volt operation.
5964	Medium-Mu Twin Triode. Especially useful in multivibrator applications. 7-pin miniature base.
5965	Medium-Mu Twin Triode. Especially useful in cathode-follower applications. Noval 9-pin miniature base with separate terminals for each cathode. Heater mid-tap for 6.3-volt or 12.6-volt operation.
6197	Sharp-Cutoff Power Pentode. Especially useful in pulse-amplifier applications. Noval 9-pin miniature base.
6211	Medium-Mu Twin Triode. Especially useful in multivibrator applications. Noval 9-pin miniature base with separate terminals for each cathode. Mid-tapped heater for 6.3-volt or 12.6-volt operation.
6350	Medium-Mu Twin Triode. High perveance type having transconductance per unit = 4600 micromhos. Especially useful in cathode follower applications in high-speed digital computers. Noval 9-pin miniature base with separate terminals for each cathode. Mid-tapped heater for 6.3-volt or 12.6-volt operation.
6814	Medium-Mu Triode. For pulse-amplifier, inverter, and cathode-follower circuits in high-speed digital-type computers. Subminiature type with 8 flexible leads.
6887	Twin Diode. Especially useful in switching circuits of medium-speed electronic computers. Low wattage heater (only 1.26 watts). 7-pin miniature base.
7044	Medium-Mu Twin Triode. High perveance type having transconductance per unit 10,000 micromhos. Especially useful in cathode follower applications in high-speed digital computers. Noval 9-pin miniature base with separate terminals for each cathode. Mid-tapped heater for 6.3-volt or 12.6-volt operation.

For key to terminal connections see page 30.



5915



5963 5965 6211



5964



6197

TUBES FOR COMPUTER APPLICATIONS

Cathode		Maximum Dimensions Inches		Maximum Ratings		Use Values to right give operating conditions and characteristics for indicated use.	Plate Supply	Grid- No. 1	Grid-No. 2 and No. 4 Supply	Grid- No. 3 Supply	Plate Current	Grid-No. 2 and No. 4 Current	Plate Circuit Resistance	Grid-No. 1 Circuit Resistance	Grid-No. 3 Circuit Resistance	RCA Type
				Plate Dissip. Watts	DC Cathode Current Ma.											
Volts	Amp.	Length	Diag.	Each Unit	Both Units		Volts	Volts	Volts	Volts	Ma.	Ma.	Ohms	Ohms	Ohms	
FOR ELECTRONIC COMPUTERS AND OTHER "ON-OFF" CONTROL APPLICATIONS																
6.3	0.3	2 1/8	3/4	1	20	Gated Amp; Grid-No. 1 Grid-No. 3	150 150 150	-10 ^A 0 0	75 75 75	0 -10 0	0 0 5.8	0 14 9	20000 20000 20000	47000 47000 47000	47000 47000 47000	5915
12.6 6.3	0.15 0.3	2 3/16	7/8	2.5	5.0	Frequency Halfer*	150 150	-15 0	— —	— —	0 5.1	— —	20000 20000	47000 47000	— —	5963
6.3	0.45	2 1/8	3/4	1.5	3.0	Frequency Halfer*	150 150	-10 0	— —	— —	0 5	— —	20000 20000	47000 47000	— —	5964
12.6 6.3	0.225 0.45	2 3/16	7/8	2.4	4.4	Frequency Divider*	150	Grid Volts (Approx.) for Plate Current of 160 μa = -7.5			—	Difference between Grid Voltages of Units for Plate Currents of 160 μa per Unit = 1.5 Max.			Plate Load Resistance = 7200 ohms	5965
							150	Grid Volts (Approx.) for Grid Current of 140 μa = less than 1 volt			10.5	—	7200	—	—	
6.3	0.65	2 5/8	7/8	7.5	50	Frequency Divider*	250* 250*	-12 -3	150* 150*	0 0	0 30	— —	— —	— —	— —	6197
12.6 6.3	0.15 0.3	2 3/16	7/8	1.5	3.0	Frequency Divider*	150	Grid Volts (Approx.) for Plate Current of 100 μa = -10 volts Max.			—	Difference between Grid Voltages of Units for Plate Currents of 100 μa per Unit = -1.5 Volt Max.			Plate Load Resistance = 20000 Ohms	6211
							150	0	—	—	5.15	—	20000	47000	—	
12.6 6.3	0.3 0.6	2 5/8	7/8	4	7	Cathode Follower	Maximum Ratings, Absolute Values: DC Plate Volts, 330 Peak Positive-Pulse Plate Volts, 1000									6350
							DC Grid Volts, -80; +4 Grid Current (Ma.), dc = 5.5; peak = 110 Cathode Current (Ma.), dc = 45; peak = 350									
6.3	0.15	1 3/8	0.4	2.2	22	Cathode Follower	Maximum Ratings, Absolute Values: Peak Heater-Cathode Volts, ±200 DC Grid Ma., 5.5; peak, 110 Cathode Ma., dc = 22; peak = 440									6814
							DC Grid Volts, -55; +5.5 DC Plate Volts, 275									
6.3	0.2	1 3/4	3/4	—	—	Switching Service	Maximum Ratings, Absolute Values: Peak Inverse Plate Volts, 360									6887
							Peak Heater-Cathode Volts, ±150									
6.3 12.6	0.9 0.45	2 5/8	7/8	4.5	8	Cathode Follower	Maximum Ratings, Absolute Values: DC Plate Volts, 300 Grid Ma., dc = 5; peak = 200 Cathode Ma., dc = 50; peak = 400									7044
							Peak Heater-Cathode Volts, ±200 DC Grid Volts, -100; +1									

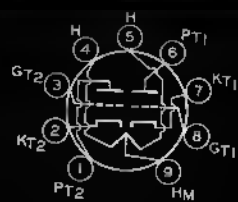
^A Peak Plate Current.
♦ Excluding leads.

§ DC Plate Current.
* Values shown in italics are for

♦ With both units operating.
cutoff condition; other values are conduction condition.

^A Grid-No. 1 Supply Volts.

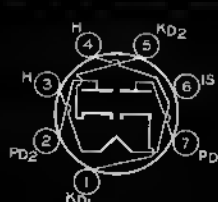
* Voltages at electrode terminals.



6350



6814



6887



7044