

Selection Guide for RCA THYRATRON, GLOW-DISCHARGE, IGNITRON, and VACUUM-GAUGE TUBES

GLOW-DISCHARGE TUBES

Average DC Operating Volts	DC Operating Current Range Ma.	Average DC Starting Volts	RCA Type
Voltage-Regulator Types			
59	0.4 to 2	67	991
75	5 to 30	105	□OC2
75	5 to 40	100	OA3
78	5 to 40	100	OA3A
108	5 to 30	115	□OB2
108	5 to 30	115	□6074 ^a
108	5 to 40	115	OC3
110	5 to 40	115	OC3A
150	5 to 40	160	OD3A
151	5 to 30	156	□OA2
151	5 to 30	156	6073 ^b
153	5 to 40	160	OD3
Voltage-Reference Types			
86.5	1.5 to 3.5	107	□5651A ^c
87	1.5 to 3.5	107	□5651
Relay Types			
Maximum Peak Inverse Anode Volts	Maximum Cathode Milliampères		RCA Type
	Peak	Average	
180	100	25	1C21 ^d
200	100	25	□5823 ^e
225	100	25	OA4G ^e

^a "Premium" version of OB2 intended for applications critical to shock and vibration.

^b "Premium" version of OA2 intended for applications critical to shock and vibration.

^c Like the 5651 but has greater voltage stability.

^d For operation from a dc supply.

^e For operation from an ac supply.

□ Miniature

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IGNITRONS

MAXIMUM RATINGS							RCA Type
<i>For power-supply frequencies of 25 to 60 cps</i>							
Anode Current ^a		Demand Power	RMS Supply	Peak Anode Inverse or Forward Volts			
Av for Intervals	Peak				Amp	KVA	
Amp	Sec	Amp	KVA	Volts	Volts	Volts	
Resistance-Welding Control Service^b							
4.86	27.8	846	150	250	-	-	5550
4.86	11.6	354	150	600	-	-	
12.1	22	1692	300	250	-	-	
12.1	9.2	708	300	600	-	-	
Resistance-Welding Control Service^b							
30.2	18	3400	600	250	-	-	5551A
30.2	7.5	1410	600	600	-	-	
56	18	1130	200	250	-	-	
56	7.5	466	200	600	-	-	
Resistance-Welding Control Service^b							
75.6	14	6800	1200	250	-	-	5552A
75.6	5.8	2830	1200	600	-	-	
140	14	2260	400	250	-	-	
140	5.8	945	400	600	-	-	
Resistance-Welding Control Service^b							
192	11	13600	2400	250	-	-	5553B
192	4.6	5660	2400	600	-	-	
355	11	4530	800	250	-	-	
355	4.6	1890	800	600	-	-	
Intermittent Rectifier Service and Frequency-Changer Welder Service							
4	10	480	-	-	1500	-	5551A
5	10	600	-	-	1200	-	
40	6	700	-	-	500	-	
100	6	1600	-	-	500	-	5552A ^c
32	6.25	2400	-	-	1500	-	5553B
40	6.25	3000	-	-	1200	-	
54	6.25	4000	-	-	600	-	
Resistance-Welding-Capacitor Discharge Service							
8	1.25	500	60 dischs/sec	d	-	-	5550
15	0.66	500	60 dischs/sec	3000	-	-	

^a Per tube. ^b Two tubes in inverse-parallel circuit.

^c Intermittent Rectifier Service only.

^d Forward volts = 6000, inverse volts = 3000.



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THYRATRONS

Triodes

MAXIMUM RATINGS				Filament-F or Heater-H		RCA Type
Anode Current		Tempera- ture Range °C	Peak Inverse Anode Volts	Volts	Amp	
Av Amp	Peak Amp					
Mercury-Vapor Types						
0.5	2	40 to 80	5000	2.5 F	5	5557
0.64	2.5	25 to 70	2500	2.5 F	6	627
1.8	10	25 to 55	15000	5.0 F	10	5563A
2.5	15	40 to 80	1000	5.0 H	4.5	5559
4	16	30 to 50	10000	5.0 H	10	677
6.4	40	40 to 80	2500	5.0 H	10	676
Gas Types						
0.04	0.2	-40 to +70	350	2.5 H	2.6	629
0.045	35	-50 to +90	3000	6.3 H	2.3	6130/3C45
0.075	0.3	-75 to +90	350	6.3 H	0.6	884
0.075	0.3	-75 to +90	350	2.5 H	1.5	885
1	8	-55 to +75	1250	2.5 F	6.3	C1K/6014
2.5	30	-55 to +75	1250	2.5 F	9	C3J/5632
2.5	30	-55 to +75	1250	2.5 F	9	C3JA/5684
2.5	30	-55 to +75	1250	2.5 F	9	C3JL
6.4	77	-55 to +75	1250	2.5 F	21	C6J/5C21
6.4	77	-55 to +75	1250	2.5 F	21	C6JA/5685
18	100	-55 to +75	1250	2.5 F	31	C16J/5665
Gas and Mercury-Vapor Types						
1	3	-40 to +80	1250	2.5 F	5	714/7021
1	8	-40 to +80	1250	2.5 F	6.3	716/6855
1.5	6	-40 to +80	1250	2.5 F	7	3C23
2.5	30	-40 to +80	1500	2.5 F	9	710/6011
6.4	77	-40 to +80	1500	2.5 F	21	760/6858

THYRATRONS

Tetrodes

MAXIMUM RATINGS				Filament-F or Heater-H		RCA Type
Anode Current		Tempera- ture Range °C	Peak Inverse Anode Volts	Volts	Amp	
Av Amp	Peak Amp					
Mercury-Vapor Types						
2.5	15	40 to 80	1000	5 H	4.5	5560
2.5	30	40 to 80	1500	5 H	5	632B
3.2	40	40 to 80	2500	5 H	5	672A
6.4	40	40 to 80	2000	5 H	10	172
6.4	40	40 to 80	2500	5 H	10	105
Gas Types						
0.025	0.1	-55 to +90	500	6.3 H	0.15	<input type="checkbox"/> 5696
0.1	0.5	-75 to +90	1300	6.3 H	0.6	<input type="checkbox"/> 2D21
0.1	0.5	-75 to +150	1300	6.3 H	0.6	<input type="checkbox"/> 5727
0.1	1	-55 to +90	1300	6.3 H	0.6	502A
0.1	1	-75 to +90	1300	6.3 H	0.6	2050
0.1	1	-75 to +90	1300	6.3 H	0.6	2050A
0.5	5	-75 to +90	1300	6.3 H	2.6	6012
0.8	8	-75 to +90	1500	6.3 H	2.6	3D22A

VACUUM-GAUGE TUBES

Gas Pressure Range		Gauge Type	RCA Type
in mm of Hg (Torr)	in microns		
1 to 0.0001	1000 to 0.1	Thermo- couple	1946
1 to 0.001*	1000 to 1*		
1.5 to below 0.01	1500 to below 10	Pirani	1947
0.5 to 0.01*	500 to 10*		
0.001 to below 0.0001	1 to below 0.1	Ionization (Hard Glass)	1949
0.001 and below*	0.1 and below*		

* Range of greatest sensitivity.

Miniature

