

# GRID CONTROLLED GAS TUBES — THYRATRON and COLD CATHODE TYPES

DESCRIPTION		CONSTRUCTION						CATHODE			MAXIMUM RATINGS (Absolute Values)												
TYPE	Features and notes	Basing	Base, B (bayonet)	Anode cap	Length, inches	Diameter, inches	Heater-filament	Volts			Heating time secs.	Temp. Range ° C.	Cond. Mercury (CM)	Ambient (A)	Peak forward anode volts	Peak inverse anode volts	Peak cathode current, amps.	Average cathode current, amps.	Surge current amps.	Critical grid volts at anode volts	De-ionization time μsec.	Approx. tube drop volts	TYPE
								2.5	6.8	25													
0A4G	For calculating machines and carrier-current relay systems.	45	Octal	—	4 $\frac{1}{8}$	1 $\frac{1}{16}$		Cold Cathode							225	0.10	.025	—	—	—	70	0A4G	
1C21	Similar to type 0A4G but for d-c operation only.	45	Octal	—	2 $\frac{1}{8}$	1 $\frac{1}{16}$		Cold Cathode							180	0.10	.025	—	—	—	73	1C21	
C1K	Xenon gas type.	55	Med. 4-pin B	—	4 $\frac{1}{4}$	1 $\frac{1}{16}$	Fil.	2.5	6.8	25	-55 to +75A	1000	1250	12.0	1.0	77	-4.5 at 2000	200	8		C1K		
2A4G	Relay control tube.	47	Octal	—	4 $\frac{1}{8}$	1 $\frac{1}{16}$	Fil.	2.5	2.5	—	-55 to +70A	200	200	1.25	0.1	—	—	—	15		2A4G		
2D21	Tetrode for sensitive control. Operates direct from phototube.	52	Min. 7-pin	—	2 $\frac{1}{8}$	$\frac{3}{4}$	Htr.	6.3	0.6	—	-75 to +90A	650	1300	0.5	0.1	10	—	—	8		2D21		
3C23	Mercury-vapor type with negative control.	3	Sm. 4-pin B	Medium	6 $\frac{1}{8}$	2 $\frac{1}{16}$	Fil.	2.5	7.0	15	-40 to +80CM	1250	1250	6.0	1.5	120	—	360	15		3C23		
C3J	Xenon gas type. Same as 5684.	1	Med. 4-pin B	Medium	6 $\frac{1}{4}$	1 $\frac{1}{16}$	Fil.	2.5	9.0	30	-55 to +75A	1000	1250	30	3.0	300	-6 at 1000	500	8		C3J		
C3P14	Automatic inverter motor control. Xenon gas.	17	Indus. 4-pin	Medium	5 $\frac{1}{16}$	2	Htr.	14	2.55	120	-75 to +85A	1250	1250	30	3.0	300	-19 at 1100	175	9		C3P14		
C3R14	Automatic inverter motor control.	17	Indus. 4-pin	Medium	5 $\frac{1}{16}$	2	Htr.	14	2.5	120	-55 to +75A	500	500	30	3.0	100	-7 at 350	200	12		C3R14		
CR5	Mercury vapor type with external metal mesh grid.	19	Mogul Screw	Small	8 $\frac{3}{4}$	1 $\frac{1}{8}$	Fil.	2.0	12	—	—	175	175	18	5.0	60V RMS out of φ with 110V RMS		10			CR5		
C5F14	Xenon gas type. Same as type 6278.	17	Flexible leads	Flexible	4 $\frac{1}{16}$	2	Htr.	14	2.5	120	-55 to +75A	500	500	60	5.0	720	-6 at 500	200	9.25		C5F14		
6D4	Relay tube or relaxation oscillator.	46	Min. 7-pin	—	2 $\frac{1}{8}$	$\frac{3}{4}$	Htr.	6.3	.25	—	-55 to +90A	350	350	0.11	.025	—	—	—	16		6D4		
C6A	Xenon gas type.	32	Mogul Screw	Formed prong	11 $\frac{2}{32}$	2.1	Fil.	2.5	18	40	-55 to +70A	300	600	77	6.4	—	-2 at 110	—	8		C6A		
C6J	Xenon gas type. Same as 5685.	14	Indus. 4-pin	Medium	9 $\frac{1}{2}$	2 $\frac{1}{32}$	Fil.	2.5	21	30	-75 to +85A	750	1250	77	6.4	770	-3.5 at 750	500	9		C6J		
C6J/A	Same as C6J except for pfv and critical grid voltage.	14	Indus. 4-pin	Medium	9 $\frac{1}{2}$	2 $\frac{1}{32}$	Fil.	2.5	21	30	-75 to +85A	1000	1250	77	6.4	770	-4.6 at 1000	500	9		C6J/A		
C6J/F	Xenon gas type.	30	Flexible with lugs	Medium	9 $\frac{1}{2}$	2 $\frac{1}{32}$	Fil.	2.5	21	30	-75 to +85A	1000	1250	77	6.4	770	-4.6 at 1000	—	9		C6J/F		
C6J/K	Xenon gas type.	14	Indus. 4-pin	Medium	9 $\frac{1}{2}$	2 $\frac{1}{32}$	Fil.	2.5	21	60	-55 to +75A	1000	1250	77	6.4	770	-4.6 at 1000	100	11		C6J/K		
C6L	Xenon gas type.	14	Indus. 4-pin	Medium	9 $\frac{1}{2}$	2 $\frac{1}{32}$	Fil.	2.5	20	60	-55 to +75A	350	500	77	6.4	770	-2 at 250	180	10		C6L		
C6M	Xenon gas type.	14	Indus. 4-pin	Medium	9 $\frac{1}{2}$	2 $\frac{1}{32}$	Fil.	2.5	21	60	-60 to +75A	1000	1250	77	6.4	770	-7 at 1000	125	12		C6M		
FG27A	Mercury-vapor type for relay control.	1	Med. 4-pin B	Medium	7 $\frac{1}{4}$	3	Fil.	5.0	4.5	60	+40 to +80CM	1000	1000	10	2.5	200	—	1000	16		FG27A		
FG95	Same as type 5560.	43	Med. 4-pin B	Medium	7 $\frac{1}{16}$	2 $\frac{1}{4}$	Htr.	5.0	4.5	300	-40 to +80CM	1000	1000	15	2.5	200	—	—	16		FG95		
FG97	Mercury-vapor double grid type.	53	Med. 4-pin B	Top & Side Medium	6 $\frac{3}{4}$	2 $\frac{1}{16}$	Fil.	2.5	5.0	5	+40 to +80CM	1000	1000	2.0	0.5	40	—	1000	16		FG97		
FG105	Mercury-vapor double grid type.	56	Super Jumbo B	Large	11 $\frac{1}{4}$	2 $\frac{1}{2}$ R	Htr.	5.0	10.0	300	+40 to +80CM	2500	2500	40	6.4	400	—	1000	16		FG105		
KY21A	Mercury-vapor type.	57	Med. 5-pin	Stiff lead	7 $\frac{1}{8}$	2 $\frac{1}{4}$	Fil.	2.5	10.0	30	+20 to +60CM	11000	11000	3	.75	—	-55 at 11KV	1000	15		KY21A		