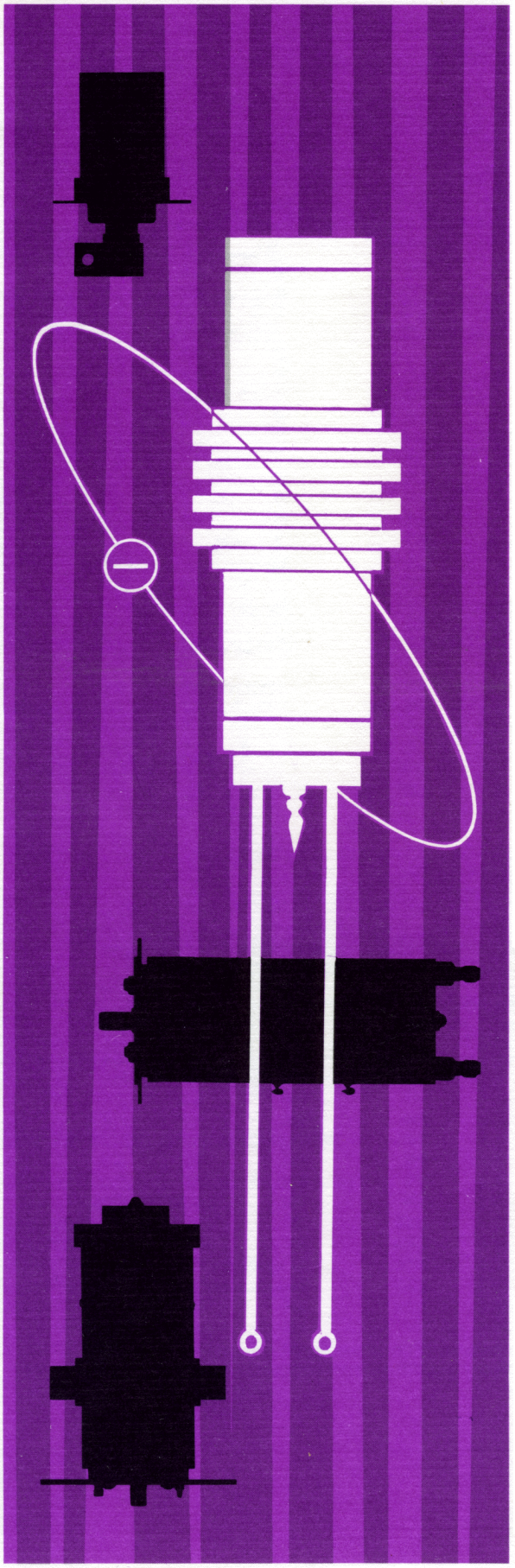

HYDROGEN THYRATRON TUBES

ELECTRON TUBE DIVISION ITT

Hydrogen Thyratron Tubes

Glass Hydrogen Thyratrons

TYPE	RATINGS PO MW	Pb X10⁹	epy KV	ib a	Ib Adc	Ip A rms	HEATERS CATH. (6.3V) If Aac	RESERVOIR Eres Vac	Ires Aac	GRID DRIVE MINIMUM AMPLITUDE (Volts)	MAXIMUM IMPEDANCE (Ohms)	APPROXIMATE DIMENSIONS INCHES Seated Height	Diameter	WEIGHT (Pounds)
KU-15	0.05	0.30	3.0	35	0.045	1.25	2.5	None	—	175	1500	3.6	1.1	1/16
KU-99	0.05	0.30	3.0	35	0.045	1.25	2.7	*	—	175	1500	4.6	1.5	3/16
3C45	0.05	0.30	3.0	35	0.045	1.25	2.5	None	—	175	1500	4.6	1.5	3/16
3C45W	0.05	0.30	3.0	35	0.045	1.25	2.7	*	—	175	1500	3.1	1.5	2/16
6130	0.05	0.30	3.0	35	0.045	1.25	2.5	None	—	175	1500	4.6	1.5	3/16
E-39	0.12	0.75	8.0	35	0.045	1.25	2.7	None	—	175	1500	3.6	1.5	3/16
5958	0.12	0.75	8.0	35	0.045	1.25	2.5	None	—	175	1500	3.8	1.5	4/16
5959	0.12	0.75	8.0	35	0.045	1.25	2.5	None	—	175	1500	3.5	1.5	4/16
6777	0.12	0.75	8.0	35	0.045	1.25	2.7	*	—	175	1500	4.3	1.5	4/16
7583	0.12	1.10	8.0	35	0.045	1.25	2.5	None	—	175	1500	3.3	1.5	3/16
8370/E38	0.22	1.25	5.0	90	0.100	3.0	6.7	*	—	175	1500	3.9	1.5	3/16
5956	0.33	2.0	8.0	83	0.100	2.9	6.7	*	—	175	1500	4.0	1.5	4/16
KU-17	0.33	2.0	8.0	83	0.100	2.9	6.7	*	—	175	1500	4.0	1.5	3/16
5957	0.33	2.0	8.0	83	0.100	2.9	6.7	*	—	175	1500	3.7	1.5	4/16
4C35A	0.35	2.0	8.0	90	0.100	3.0	6.7	*	—	175	1500	6.0	2.5	8/16
8424	1.5	3.8	12.0	300	0.200	7.8	11.6	*	—	200	500	7.8	2.5	10/16
KU-27	2.0	3.9	16.0	325	0.225	6.3	10.6	6.3	1.0	200	500	6.3	2.5	8/16
KU-28	2.0	3.9	16.0	325	0.225	6.3	11.6	*	—	200	500	5.8	2.5	8/16
5C22	2.0	3.2	16.0	325	0.200	6.3	11.6	*	—	200	500	7.8	2.5	10/16
6587	2.0	3.9	16.0	325	0.225	6.3	11.6	*	—	200	500	6.3	2.5	9/16
8488/KU29	2.0	3.9	16.0	325	0.225	6.3	11.0	*	—	200	500	5.8	2.5	10/16
5949A	6.0	6.3	25.0	500	0.500	15	22.0	3.0-5.5	6.0	550	200	11.2	3.3	17/16
KU-54	12.0	9.0	25.0	1000	1.0	30	33.0	2.5-5.5	8.0	700	200	12.3	5.0	28/16
5948A	12.0	9 0	25.0	1000	1.0	30	33.0	2.5-5.5	8.0	700	200	13.5	5.0	48/16
1257	33.0	20.0	33.0	2000	2.6	60	40.0	3.4-6.0	12.0	1300	70	17.8	7.0	10
KU-48	40.0	20.0	40.0	2400	2.6	60	40.0	3.5-6.0	12.0	1300	70	17.8	7.0	8 3/16

*Reservoir connected internally across Cathode Heater.

Ceramic Hydrogen Thyratrons

TYPE	RATINGS PO MW	Pb X10⁹	epy KV	ib a	Ib Adc	Ip A rms	HEATERS CATH. (6.3V) If Aac	RESERVOIR Eres Vac	Ires Aac	GRID DRIVE MINIMUM AMPLITUDE (Volts)	MAXIMUM IMPEDANCE (Ohms)	APPROXIMATE DIMENSIONS INCHES Seated Height	Diameter	WEIGHT (Pounds)
7621/KU-70C	0.40	2.7	8.0	100	0.100	2.0	3.0	*	—	150	1500	1.5	1.0	3/16
7782/KU-71	2.0	4.0	14.0	350	0.200	5.0	5.5	6.3	1.5	175	1500	1.8	1.4	5/16
8765/KU-71Z	2.0	4.0	12.0	350	0.200	5.0	6.0	*	—	175	1500	3.1	1.4	7/16
8553/KU-72Z	4.0	7.0	16.0	500	0.500	6.5	7.0	*	—	200	500	4.5	2.4	11/16
8613	4.0	10.0	16.0	500	0.500	8.0	11.5	*	—	175	500	5.0	2.4	15/16
7665/KU-72	5.0	7.0	20.0	500	0.500	6.5	5.8	6.3	1.5	200	500	2.3	1.8	9/16
7620	5.0	10.0	20.0	500	0.500	8.0	10.6	6.3	1.5	200	500	3.5	2.3	13/16
7322	12.0	20.0	25.0	1000	2.0	36	22.0	6.3	6.0	500	400	5.2	3.0	3
8354	12.0	25.0	25.0	1000	2.2	40	18.0	6.3	8.0	500	200	4.0	3.0	27/16
7666	18.0	20.0	25.0	1500	2.0	40	22.0	2.5-6.0	6.0	500	400	5.2	3.0	3
7390	33.0	30.0	33.0	2000	4.0	72	35.0	3.5-5.5	12.0	1300	70	10.0	4.5	11 8/16
7667	40.0	40.0	33.0	2400	4.0	90	35.0	3.5-5.5	20.0	1300	70	10.0	4.5	11 8/16
7890	48.0	55.0	40.0	2400	2.6	75	35.0	2.5-5.5	16.0	1300	70	12.0	4.5	15
7866/KU274	60.0	55.0	50.0	2400	4.0	90	35.0	3.5-5.5	20.0	1300	70	12.0	4.5	15
8326A/KU74B	66.0	60.0	33.0	4000	7.0	120	45.0	3.5-5.5	20.0	1300	100	9.7	6.0	13 12/16
8554/KU274B	100.0	60.0	50.0	4000	7.0	120	45.0	3.5-6.0	20.0	750	100	12.0	4.5	15
8479/KU275A	125.0	400.0	50.0	5000	8.0	200	55.0	3.5-6.0	25.0	1500	100	15.5	9.5	45
8301/KU275	125.0	400.0	50.0	5000	8.0	200	55.0	3.5-6.0	25.0	1500	100	16.0	8.5	45

*Reservoir connected internally across Cathode Heater.

Glass Hydrogen Diodes

TYPE	PULSE DIODE epx KV	ib a	Ip A rms	RECTIFIER epy KV	ib a	Ib ma	HEATERS CATHODE Ef (Vac)	If (Aac)	RESERVOIR Eres (Vac)	Ires (Aac)	APPROXIMATE DIMENSIONS INCHES Seated Height	Diameter	WEIGHT (Pounds)
KU-51	15	*	*	10	0.8	.200	5.0	6.2	5.0	0.8	4.0	1.5	3/16
7178	16	500	15.0	*	*	*	5.0	22.0	5.0	5.0	10.2	3.3	1 3/16
8264/KU-52	18	*	6.3	15	2.0	.600	5.0	11.5	5.0	4.0	6.8	2.5	9/16

*Consult ITT Applications Engineering Department.

Ceramic Hydrogen Diodes

TYPE	PULSE DIODE epx KV	ib a	Ip A rms	RECTIFIER epy KV	ib a	Ib ma	HEATERS CATHODE Ef (Vac)	If (Aac)	RESERVOIR Eres (Vac)	Ires (Aac)	APPROXIMATE DIMENSIONS INCHES Seated Height	Diameter	WEIGHT (Pounds)
KU-91	15	150	3.5	10	1.0	.300	5.0	6.5	4.0-5.0	4.0	1.8	1.4	3/16
8274/KU-92	20	300	6.3	15	2.0	.600	5.0	9.5	4.0-5.0	4.0	2.3	1.8	9/16
8275/KU-93	30	500	15.0	20	8.0	2.0	5.0	27.0	4.0-5.0	5.5	5.2	3.0	3
8376/KU-93A	33	750	20.0	25	10.0	2.5	5.0	15.0	4.0-5.0	5.0	5.2	3.0	3
8276/KU-94	40	2000	60.0	25	15.0	4500	5.0	28.0	4.0-5.0	20.0	8.3	4.5	11 5/16

*Consult ITT Applications Engineering Department.

Glass Crowbar Thyratrons

TYPE	RATINGS epy KV	1.0 ms ib a	100 ms ib a	HEATERS CATHODE (6.3 Vac) If (Aac)	RESERVOIR Eres (Vac)	Ires (Aac)	APPROXIMATE DIMENSIONS INCHES Seated Height	Diameter	WEIGHT (Pounds)
KU-8329	16	500	12	12	I. C.	—	7.8	2.5	1 9/16
7559	25	1500	50	30	2.5-5.5	5	13.5	5.0	4 8/16
7590	25	1000	25	22	2.5-5.5	5	11.2	3.3	1 3/16
7603	10	200	5	7	I. C.	—	6.0	2.5	8/16
7605	25	3000	90	30	2.5-5.5	5	17.8	7.0	8 3/16

Ceramic Crowbar Thyratrons

TYPE	RATINGS epy KV	1.0 ms ib a	100 ms ib a	HEATERS CATHODE (6.3 Vac) If (Aac)	RESERVOIR Eres (Vac)	Ires (Aac)	APPROXIMATE DIMENSIONS INCHES Seated Height	Diameter	WEIGHT (Pounds)
KU-471	20	250	5	6.0	2.5-6.3	4	1.8	1.4	5/16
KU-472	20	500	10	8.0	2.5-6.3	4	2.3	1.8	8/16

Abbreviation and Symbols

A — Amperes (may be either ac rms or dc)
a — Amperes (peak value)
Aac — ac amperes (rms)
Adc — dc amperes
epx — Peak plate inverse voltage
epy — Peak forward anode voltage
Eres — Reservoir voltage
Ib — dc anode current
ib — Peak value of anode current. When used in reference to pulses, the maximum peak current excluding spike
If — Filament or heater current
Ip — rms value of anode current = $\sqrt{ib \times Ib}$
Ires — Reservoir current
KV — Peak kilovolts
KW — Kilowatts
ms — Milliseconds
MW — Megawatts
Pb — Plate dissipation factor (epx x prr x ib)
rms — Root mean square
V — Volts (may be either ac rms or dc)
v — Volts, peak value
Vac — ac volts (rms)
Vdc — dc volts
Po — Peak switching power = $\frac{epy \times ib}{2}$

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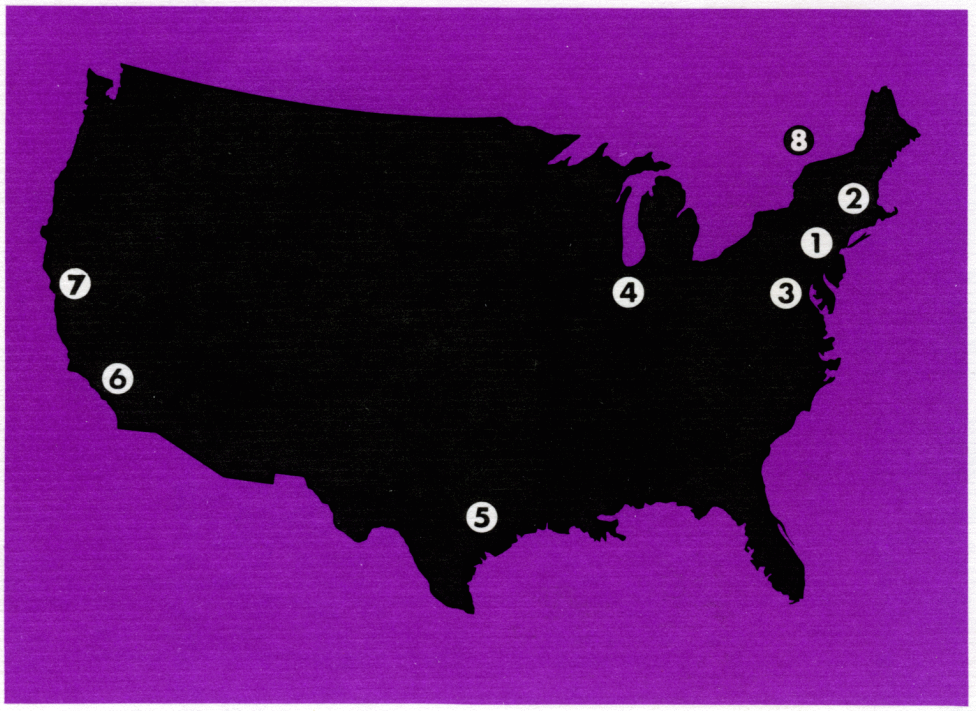

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