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Raytheon

RAYTHEON

INDUSTRIAL TUBES

cathode ray and storage

RAYTHEON

INDUSTRIAL CATHODE RAY TUBES

Type	Typical Operation	Type of Focus	Type of Defl.	Defl. Angle	Max. Dim. Inches		Heater		Min. Useful Screen Size Diam.	Anode Volts	TYPICAL OPERATING CONDITIONS			Focus Current Ma.	Phosphor. Persistence	Type
					Length	Diam.	Volts	Amps.			G2 or A2 Volts	Cutoff G1 Volts	Focus Volts			
3ACP2	Oscillograph	Electro.	Electro.	—	10 3/16"	3 1/16"	6.3	0.6	2.68	4000	2000	−45 to −75	390 to 550	0	Long	3ACP2
3ACP7	Oscilloscope	Electro.	Electro.	—	10 3/16"	3 1/16"	6.3	0.6	2.68	—	4000	−45 to −75	390 to 550	0	Long	3ACP7
3ADP1	Oscillo.	Electro.	Electro.	—	10 1/4"	3 1/16"	6.3	0.6	2 15/16"	3300	320	−52 to −87	30 to 470	0	Short	3ADP1
3UP1	Oscilloscope	Electro.	Electro.	—	7 5/8"	2 23/32"	6.3	0.6	1 1/8" x 1 3/4"	—	1100	−27 to −63	160 to 310	0	Short	3UP1
3UP7	Oscilloscope	Electro.	Electro.	—	7 1/2"	2 1/8"	6.3	0.6	1 1/8" x 1 3/4"	—	2000	—	—	0	Long	3UP7
3WP1	Oscillograph	Electro.	Electro.	—	11 5/8"	3 1/16"	6.3	0.6	2 3/4"	2500	—	0 to 200	330 to 620	0	Medium	3WP1
3WP7	Oscillograph	Electro.	Electro.	—	11 5/8"	3 1/16"	6.3	0.6	2 3/4"	2500	—	0 to 200	330 to 620	0	Medium	3WP7
4CP7	Oscilloscope	Mag.	Mag.	50°	11 1/2"	4 3/64"	6.3	0.6	3 3/8"	20,000	—	−70 to −140	—	195μA	Long	4CP7
5ABP1	Oscillograph	Electro.	Electro.	—	17 1/8"	5 11/32"	6.3	0.6	4 9/16"	—	2000	−52 to −87	400 to 690	0	Medium	5ABP1
5ABP7	Oscillograph	Electro.	Electro.	—	17 1/8"	5 11/32"	6.3	0.6	4 9/16"	4000	2000	−33 to −65	400 to 515	0	Long	5ABP7
5ABP11	Oscillograph	Electro.	Electro.	—	17 1/8"	5 11/32"	6.3	0.6	4 9/16"	—	4000	−52 to −87	400 to 690	0	Short	5ABP11
5ADP7	Oscilloscope	Electro.	Electro.	—	16 15/16"	5 11/32"	6.3	0.6		4000	2000	−45 to −75	—	0	Long	5ADP7
5AHP7 5AHP7A	Oscillograph	Electro.	Mag.	53°	11 3/8"	5 1/32"	6.3	0.6	4 1/4"	7000	300 VDC	−28 to −72	0 to 250	0	Long	5AHP7 5AHP7A
5AHP14 5AHP14A	Oscillograph	Electro.	Mag.	53°	11 3/8"	5 1/32"	6.3	0.6	4 1/4"	7000	300 VDC	−28 to −72	0 to 250	0	Med.-Long	5AHP14 5AHP14A
5AKP19	Flying Spot Scanner	Magn.	Magn.	50°	12 9/16"	5"	6.3	0.6	4 1/4"	30000	40000 VDC	−80 to−140	—	250	Short	5AKP19
5AHP19A	Oscillograph	Electro.	Mag.	53°	11 3/8"	5 1/32"	6.3	0.6	4 1/4"	7000	300 VDC	−28 to −72	0 to 250	0	Long	5AHP19A
5AMP1	Oscillo.	Electro.	Electro.		17 5/8"	5 1/4"	6.3	0.6	4 1/2"	2500	1500	−13.6 to −22.4	0 to 300	0	Long	5AMP1
5FP7A	Oscillograph	Mag.	Mag.	53°	11 1/2"	5 1/32"	6.3	0.6	4 1/4"	7000	250	−25 to −70	—	128	Long	5FP7A
5FP14A	Oscillograph	Mag.	Mag.	53°	11 1/2"	5 1/32"	6.3	0.6	4 1/4"	7000	250	−25 to −70	—	128	Long	5FP14A
5WP15	Flying-Spot Video-Signal Generator	Electro.	Mag.	50°	11 13/16"	5 1/8"	6.3	0.6	4 1/4"	—	20,000	−42 to −98	—	0	Very Short	5WP15
5ZP16	Flying-Spot Video-Signal Generator	Electro.	Mag.	40°	14 3/4"	5 1/8"	6.3	0.6	4 1/4"	27,000	200	—	—	0	Extremely Short	5ZP16
7ABP7	Radar Ind.	Electro.	Mag.	50°	13 1/2"	7 5/16"	6.3	0.6	6"	7000	300	−33 to −77	0 to 250	0	Long	7ABP7
7ABP7A	Radar Ind.	Electro.	Mag.	50°	13 1/2"	7 5/16"	6.3	0.6	6"	7000	300		0 to 250	0	Long	7ABP7A
7ABP14	Radar Ind.	Electro.	Mag.	50°	13 1/2"	7 5/16"	6.3	0.6	6"	7000	300		0 to 250	0	Med.-Long	7ABP14
7ABP19A	Radar Ind.	Electro.	Mag.	50°	13 1/2"	7 5/16"	6.3	0.6	6"	7000	300		0 to 250	0	Long	7ABP19A
7AEP7	Radar Ind.	Electro.	Electro.	—	15 3/4"	7 3/32"	6.3	0.6	6 1/8"	4000	—	−45 to −75	—	0	Long	7AEP7
7BP7A	Oscillograph	Mag.	Mag.	53°	13 5/8"	7 1/8"	6.3	0.6	6"	7000	250	−25 to −70	—	0	Long	7BP7A
7MP7	Radar Ind.	Mag.	Mag.	50°	13 1/8"	7 5/16"	6.3	0.6	6"	7000	250	−27 to −63	—	85	Long	7MP7
7MP14	Radar Ind.	Mag.	Mag.	50°	13 1/8"	7 5/16"	6.3	0.6	6"	7000	250	−27 to −63	—	85	Long	7MP14
7SP7	Oscilloscope	Mag.	Mag.	53°	14 7/16"	7 5/16"	6.3	0.6	6"	20,000		−63 to −147	—	195	Long	7SP7
7UP7	Oscillo.	Mag.	Mag.	53°	13 1/4"	7"	6.3	0.6	6"	10,000	700	−125	—	0	Long	7UP7
10KP7	Oscillograph	Mag.	Mag.	50°	18"	10 9/16"	6.3	0.6	9"	10,000	700	−27 to −63	—	0	Long	10KP7
10KP7A	Oscilloscope	Mag.	Mag.	50°	18"	10 9/16"	6.3	0.6	9"	9000	250	−27 to −63	—	105	Long	10KP7A
10NP[redacted]	Video Record	Mag.	Mag.	52°	17 5/8"	10 1/2"	6.3	0.6	[redacted]	25,000	350	−65 to −125	0 to 300	110	Short	[redacted]7 10NP11

10QP[redacted]	Oscilloscope	Mag.	Mag.	50°	10″	10 9/16″	6.3	0.6	[redacted]	20.000 (including G2)	–	−63 to −147	–	0	Long	[redacted] 10QP7
10UP14B	Radar Ind.	Electro.	Mag.	50°	21 5/16″	15 7/8″	6.3	0.6	14 3/8″	10,000	300	−28 to −72	−500 to −1000	0	Long	10UP14B
10SP4	Monitor Kinescope	Electro.	Mag.	50°	17″	10 9/16″	6.3	0.6	9 1/4″	20,000	410	–	–	0		10SP4
10UP7A	Radar Ind.	Electro.	Mag.	50°	18″	10 9/16″	6.3	0.6	9″	10,000	300	−28 to −72	−150 to +150	0	Long	10UP7A
10WP7	Radar Ind.	Electro.	Mag.	50°	17 5/16″	10 5/8″	6.3	0.6	9″	10,000	300	−28 to −72	0 to 300	0	Long	10WP7
10WP7A	Radar Ind.	Electro.	Mag.	50°	17 5/16″	10 5/8″	6.3	0.6	9″	10,000	300	−28 to −72	0 to 300	0	Long	10WP7A
10WP14	Radar Ind.	Electro.	Mag.	50°	17 5/16″	10 5/8″	6.3	0.6	9″	10,000	300	−28 to −72	0 to 300	0	Med.-Long	10WP14
10WP19A	Radar Ind.	Electro.	Mag.	50°	17 5/16″	10 5/8″	6.3	0.6	9″	10,000	300	−27 to −72	0 to 300	0	Long	10WP14
12ABP7 12ABP7A	Radar Ind.	Electro.	Mag.	55°	18 3/8″	12 9/16″	6.3	0.6	11″	10,000	300	−28 to −72	0 to 300	0	Long	12ABP7 12ABP7A
12ABP14 12APB14A	Radar Ind.	Electro.	Mag.	55°	18 3/8″	12 9/16″	6.3	0.6	11″	10,000	300	−28 to −72	0 to 300	0	Med.-Long	12ABP14 12ABP14A
12ABP19A	Radar Ind.	Electro.	Mag.	55°	18 3/8″	12 9/16″	6.3	0.6	11″	10,000	300	−28 to −82	–	0		1ABP19A
12DP7A	Radar Ind.	Mag.	Mag.	50°	20″	12 5/8″	6.3	0.6	10″	7,000	250	−25 to −70	–	117	Long	12DP7A
12SP7	Radar Ind.	Mag.	Mag.	54°	19 1/8″	12 1/2″	6.3	0.6	11″	9000	250	−27 to −63	–	104	Long	12SP7
16ADP7 16ADP7A	Radar Ind.	Mag.	Mag.	53°	22″	16″	6.3	0.6	14 3/8″	12,000	250	−27 to −63	–	95	Long	16ADP7 16ADP7A
17AVP7	Kinescope	Electro.	Mag.	90°	16″	12 13/32″	6.3	0.6	14 1/4″ × 10 3/4″	12,000	300	−33 to −77	–	0	Long	17AVP7
21FP7A	Radar Ind.	Electro.	Mag.	70°	23 3/8″	21 11/32″	6.3	0.6	13 7/8 x 19 1/8	16,000	300	−28 to −72	−65 to +350	0	Long	21FP7A
CK1351P7A	Radar Ind.	Electro.	Mag.	70°	17 3/4″	15 7/8″	6.3	0.6	14 1/2″	10,000	300	−28 to −72	−250 to +250	0	Short	CK1351P7A
CK1352P7A	Radar Ind.	Electro.	Mag.	53°	21 1/2″	14 27/32″	6.3	0.6	13 5/8″	12,000	300	−40 to −70	3800	0	Long	CK1352P7A
CK1353P7	Radar Ind.	Electro.	Mag.	53°	21″	14 23/32″	6.3	0.6	13 5/8″	10,000	1000	−35 to −75	−35 to +400	0	Long	CK1353P7
CK1353P7A	Radar Ind.	Electro.	Mag.	53°	21 1/2″	16″	6.3	0.6	13 5/8″	12,000	300	−33 to −77	−135 to +400	0	Long	CK1353P7A
CK1354P11A	Video Record	Electro.	Mag.	44°	10 1/4″	3″	6.3	0.6	2 5/8″	10,000	700	−30 to −75	0 to 300	0	Short	CK1354P11A
CK1355P19A	Radar Ind.	Electro.	Mag.	50°	13 1/4″	7 3/16″	6.3	0.6	6″	7500	300	−30 to −65	0 to 300	0	Long	CK1355P19A
CK1356P7	Radar Ind.	Electro	Mag.	44°	10 1/4″	3″	6.3	0.6	2 5/8″	10,000	700	−180	0 to 300	0	Long	CK1356P7
CK1357P7A	Radar Ind.	Electro.	Mag.	66°	24 1 1/16″	18 5/8″	6.3	0.6	17 3/8″	12,000	700	0 to −600	5500	0	Long	CK1357P7A
CK1358P7A	Radar Ind.	Electro.	Mag.	90°	18.38″	5 1/2″	6.3	0.6	4 1/2″	13,000	2750	−35 to −65	750	0	Long	CK1358P7A
CK1359P7A	Radar Ind.	Electro.	Mag.	52°	22 1/16″	15 7/8″	6.3	0.6	13 5/8″	16,500	700	−28 to −72	0 to 300	0	Long	CK1359P7A
CK1360P7A	Radar Ind.	Electro.	Mag.	50°	13 1/2″	7 5/16″	6.3	0.6	6″	7000	300	−33 to −77	0 to 250	0	Long	CK1360P7A

NOTES: Most types are available in their metallized screen counterparts * Rectangular types indicated by height and width — All types listed available in all popular phosphors

STORAGE TUBES

TYPE	CONSTRUCTION	DEFLECTION	TYPICAL APPLICATION	FILAMENT			Anode 2	Anode 1	MAX. VOLTAGES		Collector	STORAGE SCREEN	MAX. CURRENT (Ma.)	RESOLUTION	CAP. OUTPUT (μμf)	BASE	TYPE
				Volts	Amps.	Type			Grid 1	Decelerator							
QK411A	Cathode Ray	Electrostatic	Storage Tube	6.3	0.6	Oxide Cathode	6000	2800	+0 −200	500	500	500	0.3	400 T V lines	20	14 Pin Shell	QK11A4
RK6835 QK464A QK464B	Cathode Ray	Magnetic	Storage Tube	6.3	0.6	Oxide Cathode		6000	+0 −200	500	500	500	0.5	400 T V lines	20	12 Pin Small Shell	RK6835 QK4646 QK464B
CK7576 QK787	2-Gun Cathode Ray	Magnetic	Scan Conversion	6.3	0.6	Oxide Cathode	4000	4000	−125	600	600	600	0.5	900 T V lines	30	12 Pin Small Shell	CK75751 QK787



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