5700

Raytheon

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SUBMINIATURE TUBES

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TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILIAMENT			MAX. DIMENSIONS Inches			PLATE VOLTS	GRID 1 VOLTS	GRID 2 VOLTS	GRID 3 VOLTS	PLATE CURR. ma.	GRID 2 CURR. ma.	AMP. FACT.	PLATE RESIST. meg.	MUT. COND. μmhos	OUTPUT milliwatts or Voltage Gain (4)	LOAD RESIST. meg.	TYPE
			Volts	Ma.	Type	Length	Width	Thick-ness												
1AD4 [1]	Pentode	R-F Amplifier	1.25	100	Fil	1.5	.385	.285	45	Rg = 2 meg	45		3.0	0.9		0.5	2000			1AD4 [1]
1AG4	Pentode	Power Amp.	1.25	40	Fil	1.5	.385	.285	41.4	−3.6	41.4		2.4	0.6		0.18	1000	35	0.012	1AG4 [1]
1AG5	Diode-Pent.	Det.-Amplifier	1.25	30	Fil	1.5	.385	.285	45	−2	45		0.28	0.12		2.5	250			1AG5
1AK4	Pentode	R-F Amplifier	1.25	2	Fil	1.5	.385	.285	45	5 meg			0.75			1.5	750			1AK4
2E31 [1] 2E32 [1-2]	Pentode	R-F Amplifier	1.25	50	Fil	1.5	.400	.285	22.5	Rg = 5.0 meg	22.5		0.4	0.3		0.35	500			2E31 [1] 2E32 [1-2]
2E35 2E36 [2]	Pentode	Power Amp.	1.25	30	Fil	1.5	.400	.285	45	−1.25	45		0.45	0.11		0.25	500	6	0.1	2E35 2E36 [2]
2G21 2G22 [2]	Triode-Hept.	Converter	1.25	50	Fil	1 5/16	.400	.285	22.5	Rg = 0.05 meg	22.5	0	0.2	0.3		0.5	60 [3]	Eb Triode = 22.5 1b Triode = 1 ma		2G21 2G22 [2]
CK501AX	Pentode	Voltage Amp.	1.25	30	Fil	1.5	.385	.285	30	Rg = 5 meg	30	Rg = 5 meg		Rg 2 = 3 meg				45 [4]	1	CK501AX
CK502AX	Pentode	Power Amp.	1.25	30	Fil	1.5	.385	.285	45	−1.25	45		.45	.11		.10	500			CK502AX
CK510AX	Dble. Tetr.	Voltage Amp.	0.625	50	Fil	1.25	.400	.285	30	Rg = 5 meg		Rg = 5 meg		Coupled to 5 meg load Rg 2 = 0.2 meg				150 [5]	2	CK510AX
CK512AX	Pentode	Voltage Amp.	0.625	20	Fil	1.25	.385	.285	22.5	Rg = 5 meg	22.5	Rg = 5 meg		Coupled to 5 meg load Rg2 = 2.7 meg				37 [4]	1	CK512AX
CK526AX	Pentode	Power Amp.	1.25	20	Fil	1.5	.385	.285	22.5	−1.5	22.5		0.525	0.135		0.22	425	3.75	0.05	CK526AX
CK527AX	Pentode	Power Amp.	1.25	15	Fil	1.5	.385	.285	22.5	Rg = 5 meg	22.5		0.1	0.025		1.8	225	0.75	0.3	CK527AX
CK528AX [1]	Pentode	Power Amp.	1.25	20	Fil	1.5	.385	.285	45	−1.25	45		0.675	0.150		0.7	560	10.5	0.2	CK528AX [1]
CK529AX [1]	Pentode	Power Amp.	1.25	20	Fil	1.5	.385	.285	15	−1.25	15		0.32	0.075		0.3	350	1.6	0.05	CK529AX [1]
CK531DX	Pentode	Power Amp.	1.25	20	Fil	1.25	.290	.235	15	−1.5	15		0.3	0.090		0.25	250	1.67	0.06	CK531DX
CK532DX	Pentode	Power Amp.	1.25	15	Fil	1.25	.290	.235	22.5	Rg = 10 meg	22.5		0.4	0.125		0.18	450	1.7	0.1	CK532DX
CK533AX	Pentode	Power Amp.	1.25	15	Fil	1.5	.385	.285	22.5	Rg = 5 meg	22.5		0.36	0.090		0.5	400	1.8	0.075	CK533AX
CK534AX	Pentode	Voltage Amp.	0.625	15	Fil	1.25	.385	.285	15	−0.625	15	Rg = 5 meg		Coupled to 5 meg load Rg 2 = 1.5 meg				24 [4]	1	CK534AX
CK535AX	Pentode	Power Amp.	1.25	20	Fil	1.5	.385	.285	15	−1.25	15		0.32	0.075		0.3	350	1.6	0.05	CK535AX
CK536AX [1]	Pentode	Power Amp.	1.25	15	Fil	1.5	.385	.285	22.5	Rg = 5 meg	22.5		0.36	0.090		0.5	400	1.8	0.075	CK536AX [1]
CK539DX	Pentode	Power Amp.	1.25	15	Fil	1.25	.290	.235	22.5	−1.4	22.5		0.25	0.075		0.25	300	2.2	0.1	CK539DX
CK542DX	Pentode	Power Amp.	1.25	15	Fil	1.25	.290	.235	22.5	−2.0	22.5		0.425	0.13		0.15	325	3.75	0.05	CK542DX
CK542DXS [1]	Pentode	Power Amp.	1.25	15	Fil	1.25	.290	.235	22.5	−2.0	12.5		0.425	0.13		0.15	325	3.75	0.05	CK542DXS [1]
CK547DX	Pentode	Power Amp.	1.25	10	Fil	1.25	.290	.235	30	Rg = 10 meg	30		0.240	0.06		0.75	425	1.35	0.2	CK547DX
CK1053	Electrolytic Diode	Elapsed Time Indicator				1.50	Dia. = .400		Max indication μa-hrs. operating current range 1-100 μa											CK1053
CK5643	Gas Tetrode	Control Circuits	6.3	15	Htrs.	1.375	Dia. = .400		Max. peak inverse anode, volts = 500 Max. peak cathode current = 100 ma. Max. average cathode current = 16 ma.											CK5643
CK5676	Triode	UHF Osc.	1.25	120	Fil	1.5	.385	.285	135	−5			4.0		15		1600			CK5676
CK5678 [1]	Pentode	R-F Amplifier	1.25	50	Fil	1.5	.385	.285	67.5	5 meg	67.5		1.8	0.48		1.0	1100			CK5678 [1]
CK5785	Diode	HW Rectifier	1.25	15	Fil	1.5	.400	.300	Max. peak inverse voltage = 3500 Max. peak plate current per plate = 450 μa Max. DC output current = 100 μa Average tube drop volts = 17 Base = flex. leads											CK5785
CK5854	Pentode	Power Amp.	1.25	30	Fil	1.5	.385	.285	45	−2.0	45		0.8	0.25		0.35	550	9.5	0.05	CK5854
CK5875 [1]	Pentode	Radiosonde	1.25	100	Fil	1.5	.385	.285	90	0	90		3.5	0.9			2500			CK5875 [1]
CK5886	Pentode	Electrometer	1.25	10	Fil	1.5	.400	.285	10	0	Triode Conn.		0.2		1.8		160	Max. I_c [1] = 2.5×10^{-13} amp.		CK5886

CK5889	Pentode	Electrometer	1.25	7.5	Fil	1.6	Dia. = .400	12	−2.0	4.5		0.005	0.005		18	14	Max. I_c[1] = 3×10^{-15} amp.		CK5889
CK5971	Triode	Amp.-Osc.	1.25	80	Fil	1.5	.385 .285	67.5	Rg = 5 meg			3.5		23		2100			CK5971
CK5972[1]	Pentode	R-F Amplifier	1.25	60	Fil	1.5	.385 .285	67.5	Rg = 2 meg	67.5		2.5	0.8		1.0	1300			CK5972[1]
CK5975	Triode	Amp.-Osc.	6.3	175	Htr	1.5	Dia. = .400	100	Rk270			10		17.5		5100			CK5975
CK5995	Diode	HW Rectifier	6.3	300	Htr	1.75	Dia. = .400	Max. peak inverse voltage = 850 Max. peak plate current per plate = 275 ma. Max. DC output current = 45 ma. Average tube drop volts = 25 Base = flex. leads											CK5995
CK6021[7]	Dble. Triode	Voltage Amp.	6.3	300	Htr	1⅜	Dia. = .400	100	Rk150			6.5		35		5400 (Each Unit)			CK6021[7]
CK6029	Triode	UHF Osc.	1.25	200	Fil	1.5	.385 .285	90	−4			11		8.5		2000			CK6029
CK6050	Triode	UHF Osc.	1.25	120	Fil	1.5	.385 .285	135	−5			4.0		15		1600			CK6050
CK6088	Pentode	Power Amp.	1.25	20	Fil	1.5	.385 .285	45	−1.25	45		0.675	0.150		0.7	560	10.5	0.2	CK6088
CK6110[7]	Dble. Diode	Detector	6.3	150	Htr	1⅜	Dia. = .400	Max. Inverse Peak Voltage = 420v Max. I^c = 4 ma. per plate											CK6110[7]
CK6111[7]	Dble. Triode	Voltage Amp.	6.3	300	Htr	1⅜	Dia. = .400	100	Rk220			8.5		20		5000 (Each Unit)			CK6111[7]
CK6112[7]	Dble. Triode	Voltage Amp.	6.3	300	Htr	1⅜	Dia. = .400	100	Rk500			0.8		70		1800 (Each Unit)			CK6112[7]
CK6152	Triode	Amp.-Osc.	6.3	200	Htr	1.5	Dia. = .400	100	Rk270			10		17.5		5100			CK6152
CK6213	Gas Diode	Voltage Ref.			Cold	1⅜	Dia. = .400	Min. starting voltage supply in light = 200 Operating voltage approx. = 127–133 Min. operating current ma. = 1 Max. operating current ma. = 2.5 Max. regulation volts = 2											CK6213
CK6245	Pentode	UHF Amplifier	6.3	200	Htr	1.50	Dia. = .400	20	0	30	0	2.5		1.0		3275			CK6245
CK6281[1]	Pentode	R-F Amplifier	0.625	20	Fil	1.25	.385 .285	22.5	Rg = 5 meg	22.5	Rg = 5 meg		Rg 2 = 2.7 meg				37[4]	1	CK6281[1]
CK6286	Triode	Osc.-Amp.	1.25	125	Fil	1.5	.385 .285	67.5	−2			6.0		11.5		2100			CK6286
CK6397[4,7]	Beam Pent	R-F Pwr Amp. Doubler	1.25 2.5	125 62.5	Fil	1.60	Dia. = .400	125	−7.5	125		7.25	1.2			1950			CK6397[4]
CK6418	Pentode	Power Amp.	1.25	10	Fil	1.25	.290 .235	22.5	−1.2	22.5	—	0.24	0.06	—	0.42	300	2.2	0.1	CK6418
CK6419	Pentode	Voltage Amp.	0.625	10	Fil	1.0	.290 .235	15	−0.625	15	Reg = 10 meg		Coupled to 10 meg load Rg 2 = 3.3 meg				27[4]	2.2	CK6419
CK6436	Gas Diode	H W Rectifier			Cold	1 13/16	Dia. = .400	Max. peak inverse voltage = 1,500 Max. peak plate current per plate = 10 ma. Max. DC output current = 100 μa Average tube drop volts = 100 Base = flex leads											CK6436
CK6437	Gas Diode	Volt. Regulator			Cold	1⅝	Dia. = .400	Min. starting voltage supply in light = 800 Operating voltage approx. = 700 Min. operating current ma. = 0.005 Max. operating current ma. = 0.100 Max. regulation volts = 15											CK6437
CK6438	Gas Diode	Volt. Regulator			Cold	1⅝	Dia. = .400	Min. starting voltage supply in light = 1400 Operating voltage approx. = 1200 Min. operating current ma. = 0.005 Max. operating current ma = 0.100 Max. regulation volts = 20											CK6438
CK6519	Pentode	Power Amp.	1.25	10	Fil	1.25	.290 .235	22.5	Rg = 10 meg	22.5		.375	0.40	0.10	0.3	425	450	1.5	CK6519
CK6526	Pentode	Power Amp.	1.25	125	Fil	1.5	.385 .285	110	−6	110		6.5	1.15			1900	375	0.01	CK6526
CK6540	Pentode	R. F. Amplifier	6.3	200	Htr	1.5	Dia. = .400	120	Rk220	120	0	7.5	2.6		0.34	5000			CK6540
CK6542	Gas Diode	Volt. Regulator			Cold	2.5	Dia. = .400	Min. starting voltage supply in light = 185 Operating voltage approx. = 150 Min. operatingcurrent ma. = 5 Max. operating current ma. = 25 Max. regulation volts = 6											CK6542
CK6611	Pentode	R-F Amplifier	1.25	20	Fil	1.5	.385 .285	30	Rg = 5 meg	30		1.0	.350		0.4	1000			CK6611
CK6612	Pentode	R-F Amplifier	1.25	80	Fil	1.5	.385 .285	30	Rg = 2 meg	30		3.0	1.0		0.18	3000			CK6612
CK6659	Gas Diode	H W Rectifier			Cold	2⅛	Dia. = .400	Max. peak inverse voltage = 2800 Max peak plate current per plate = 40 ma. Max. DC output current = 8 ma. Average tube drop volts = 100 Base = flex. leads											CK6659
CK6814	Triode	Volt. Amp.	6.3	15	Htr	1⅜"	Dia. = .400	100	Rk150			10		29	.0048	6000			CK6814
CK6832[7]	Dble. Triode	D-C Amplifier	6.3	400	Htr	1.50	Dia. = .400	100	Rk3000			0.75		26	0.026	1000			CK6832[7]
CK6872	Pentode	R-F Amplifier	6.3	200	Htr	1.50	Dia. = .400	120	Rk200	120	0	7.75	2.7			4100			CK6872
CK6932	Pentode	Mixer Gated Amp.	1.25	20	Fil	1.625	Dia. = .400	45	−1.25	45	0	.56	.32			475			CK6932
CK6999	Pentode	Power Amp.	1.32	10	Fil	1½"	Dia. = .295 x .385	67.5	4.5	67.5		5	1.2			1800			CK6999
CK7576	Triode	RF Power Amp.	6.3	450	Htr	1.750	Dia. = .400	200				15		44		10,500			CK7576

[1] Fully shielded by metallic coating. [2] Leads are 0.016" diameter and 0.200" long. [3] Conversion Conductance. [4] Voltage Gain (ratio). [5] Space-Charge tube, given in cascade gain.
[6] Filiament center-tap provided for 1.25 or 2.5 volt operation. Type is designed for intermittent service operation. [7] This type has an 8-lead subminiature button base.
This data is compiled as a Raytheon service to the Field, it is not intended to indicate type availability.

RAYTHEON

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