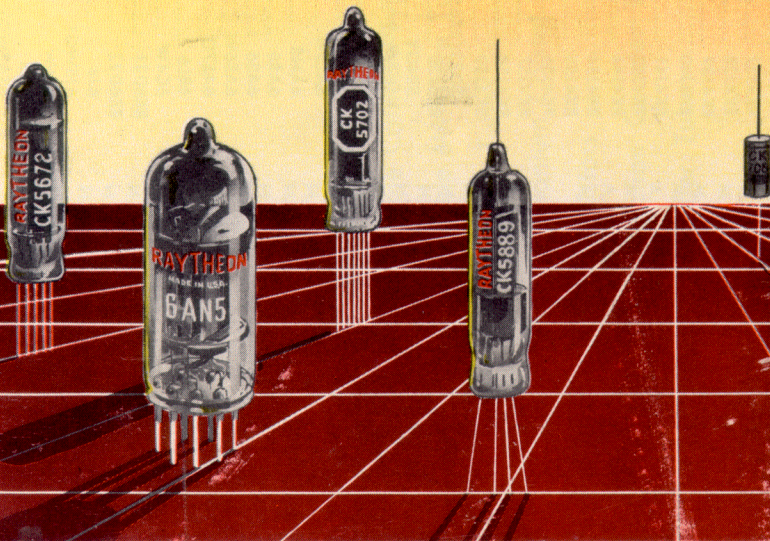


# RAYTHEON

## SPECIAL PURPOSE **TUBE** **CHARACTERISTICS**

SUBMINIATURE  
HEARING AID  
RELIABLE  
RUGGED  
TRANSISTORS  
CRYSTAL DIODES  
NUCLEONIC  
VOLTAGE  
REGULATOR  
RECTIFIER  
TRANSMITTING  
MAGNETRON  
KLYSTRON





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## NOTES

<sup>1</sup> Fully shielded by metallic coating.

<sup>2</sup> Leads are 0.016" diameter and 0.200" long.

<sup>3</sup> Conversion Conductance.

<sup>4</sup> Voltage Gain (times).

<sup>5</sup> Space-Charge tube, value given is cascade gain.

<sup>6</sup> Measured at 50 microwatts input to emitter.

<sup>7</sup> This type has an 8-lead subminiature button base.

<sup>8</sup> Water cooled.

<sup>9</sup> Filament center-tap provided for 1.25 or 2.5 volt operation. Type is designed for intermittent service operation.



# SUBMINIATURE TUBES



TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILAMENT			TERM. CONN.	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	LOAD RESIST. meg.	TYPE
			Volts	Ma.	Type		Length	Width	Thick-ness												
<b>1AD4<sup>1</sup></b>	Pentode	R-F Amplifier	1.25	100	Fil	5A	1.5	.385	.285	45	Rg = 2 meg.	45		2.8	0.8		0.5	2000			<b>1AD4<sup>1</sup></b>
<b>1AE5</b>	Heptode	Mixer	1.25	60	Fil	6A	1.5	.400	.300	45	Rg = 0.2 meg.	45	0	0.9	2		0.2	200 <sup>3</sup>			<b>1AE5</b>
<b>1AG4</b>	Pentode	Power Amp.	1.25	40	Fil	5J	1.5	.385	.285	41.4	-3.6	41.4		2.4	0.6		0.18	1000	35	0.012	<b>1AG4</b>
<b>1AG5</b>	Diode-Pent.	Det.-Amplifier	1.25	30	Fil	6B	1.5	.385	.285	45	Rg = 5 meg.	45		0.8	0.25		0.26	350			<b>1AG5</b>
<b>1AH4<sup>1</sup></b>	Pentode	R-F Amplifier	1.25	40	Fil	5A	1.5	.385	.285	45	Rg = 5 meg.	45		0.75	0.2		1.5	750			<b>1AH4<sup>1</sup></b>
<b>1V6</b>	Triode-Pent.	Converter	1.25	40	Fil	7BC	1.5	.410	.285	45	Rg = 5 meg.	45		0.40	0.15		1.0	200 <sup>3</sup>	Eb Triode = 45 lb Triode = 0.4 ma.		<b>1V6</b>
<b>2E31<sup>1</sup></b> <b>2E32<sup>1-2</sup></b>	Pentode	R-F Amplifier	1.25	50	Fil	5D	1.5	.385	.285	22.5	0	22.5		0.4	0.3		0.35	500			<b>2E31<sup>1</sup></b> <b>2E32<sup>1-2</sup></b>
<b>2E35</b> <b>2E36<sup>2</sup></b>	Pentode	Power Amp.	1.25	30	Fil	5B	1.5	.385	.285	45	-1.25	45		0.6	0.11		0.25	525	6	0.1	<b>2E35</b> <b>2E36<sup>2</sup></b>
<b>2G21</b> <b>2G22<sup>2</sup></b>	Triode-Hept.	Converter	1.25	50	Fil	7B	1 1/16	.385	.285	22.5	Rg = 50,000	22.5	0	0.2	0.3		0.5	60 <sup>3</sup>	Eb Triode = 22.5 lb Triode = 1 ma.		<b>2G21</b> <b>2G22<sup>2</sup></b>
<b>CK501AX</b>	Pentode	Voltage Amp.	1.25	30	Fil	5J	1.5	.385	.285	45	0	45		0.65	0.25		1.0	750	45 <sup>4</sup>		<b>CK501AX</b>
<b>CK502AX</b>	Pentode	Power Amp.	1.25	30	Fil	5J	1.5	.385	.285	45	-1.25	45		0.6	0.15		0.2	550	6	0.1	<b>CK502AX</b>
<b>CK503AX</b>	Pentode	Power Amp.	1.25	30	Fil	5J	1.5	.385	.285	45	-2	45		0.8	0.25		0.35	550	9.5	0.05	<b>CK503AX</b>
<b>CK505AX</b>	Pentode	Voltage Amp.	0.625	30	Fil	5J	1.25	.385	.285	22.5	-0.625	22.5		0.125	0.040		1.1	180	38 <sup>4</sup>		<b>CK505AX</b>
<b>CK506AX</b>	Pentode	Power Amp.	1.25	50	Fil	5J	1.5	.385	.285	45	-4.5	45		1.25	0.4		0.12	500	25	0.03	<b>CK506AX</b>
<b>CK507AX</b>	Pentode	Power Amp.	1.25	45	Fil	5J	1.5	.385	.285	45	-2	45		0.9	0.3		0.3	575	11	0.05	<b>CK507AX</b>
<b>CK509AX</b>	Triode	Voltage Amp.	0.625	30	Fil	4B	1.25	.385	.285	45	0			0.15			0.15	160	16 <sup>4</sup>		<b>CK509AX</b>
<b>CK510AX</b>	Dble-Tetr.	Voltage Amp.	0.625	50	Fil	7D	1.25	.400	.285	45	0			0.06			0.5	65	150 <sup>5</sup>		<b>CK510AX</b>
<b>CK511X</b>	Pentode	Voltage Amp.	1.25	50	Fil	6C	1.75	Dia. = .550		45	0	45		0.24	0.2		0.22	220	30 <sup>4</sup>	1.0	<b>CK511X</b>
<b>CK512AX</b>	Pentode	Voltage Amp.	0.625	20	Fil	5J	1.25	.385	.285	22.5	-0.625	22.5		0.125	0.040		1.25	160	37 <sup>4</sup>		<b>CK512AX</b>
<b>CK515BX</b>	Triode	Voltage Amp.	0.625	30	Fil	4B	1.19	Dia. = .315		45	0			0.15		24		160	16 <sup>4</sup>	1.0	<b>CK515BX</b>
<b>CK516AX</b>	Triode	Voltage Amp.	0.625	20	Fil	5M	1.25	.385	.285	22.5	-0.625			0.15			0.05	200	7.5 <sup>4</sup>	1.0	<b>CK516AX</b>
<b>CK518AX<sup>1</sup></b>	Pentode	Power Amp.	1.25	30	Fil	5E	1.515	.380	.290	45	-2	45		0.8	0.25		0.35	550	9.5	0.5	<b>CK518AX<sup>1</sup></b>
<b>CK520AX</b>	Pentode	Power Amp.	0.625	50	Fil	5J	1.25	.385	.285	45	-2.5	45		0.24	0.075		1.0	150	3.5	0.15	<b>CK520AX</b>
<b>CK521AX</b>	Pentode	Power Amp.	1.25	50	Fil	5J	1.5	.385	.285	22.5	-3	22.5		0.8	0.22		0.22	400	6	0.02	<b>CK521AX</b>
<b>CK522AX</b>	Pentode	Power Amp.	1.25	20	Fil	5J	1.5	.385	.285	22.5	0	22.5		0.3	0.08		0.6	450	1.2	0.2	<b>CK522AX</b>
<b>CK523AX</b>	Pentode	Power Amp.	1.25	30	Fil	5J	1.5	.385	.285	22.5	-1.2	22.5		0.3	0.075		0.3	360	2.5	0.075	<b>CK523AX</b>
<b>CK524AX</b>	Pentode	Power Amp.	1.25	30	Fil	5J	1.5	.385	.285	15	-1.75	15		0.45	0.125		0.2	300	2.2	0.03	<b>CK524AX</b>
<b>CK525AX</b>	Pentode	Power Amp.	1.25	20	Fil	5J	1.5	.385	.285	22.5	-1.2	22.5		0.25	0.06		0.33	325	2.2	0.06	<b>CK525AX</b>
<b>CK526AX</b>	Pentode	Power Amp.	1.25	20	Fil	5J	1.5	.385	.285	22.5	-1.5	22.5		0.45	0.12		0.22	400	3.75	0.05	<b>CK526AX</b>
<b>CK527AX</b>	Pentode	Power Amp.	1.25	15	Fil	5J	1.5	.385	.285	22.5	0	22.5		0.1	0.025		1.8	225	0.75	0.3	<b>CK527AX</b>
<b>CK528AX<sup>1</sup></b>	Pentode	Power Amp.	1.25	20	Fil	5E	1.515	.390	.290	22.5	0	22.5		0.3	0.08		0.6	450	1.2	0.2	<b>CK528AX</b>
<b>CK529AX<sup>1</sup></b>	Pentode	Power Amp.	1.25	20	Fil	5E	1.515	.390	.290	15	-1.25	15		0.32	0.075		0.3	350	1.6	0.05	<b>CK529AX<sup>1</sup></b>
<b>CK531DX</b>	Pentode	Power Amp.	1.25	20	Fil	5J	1.25	.285	.220	15	-1.5	15		0.30	0.090		0.25	275	1.6	0.06	<b>CK531DX</b>
<b>CK532DX</b>	Pentode	Power Amp.	1.25	15	Fil	5J	1.25	.285	.220	22.5	0	22.5		0.40	0.125		0.18	450	1.8	0.1	<b>CK532DX</b>
<b>CK533AX</b>	Pentode	Power Amp.	1.25	15	Fil	5J	1.5	.385	.285	22.5	0	22.5		0.36	0.09		0.5	400	1.8	0.075	<b>CK533AX</b>
<b>CK534AX</b>	Pentode	Voltage Amp.	0.625	15	Fil	5J	1.25	.385	.285	15	-0.625	15		0.0047	0.0014		12	20	30 <sup>4</sup>	2.2	<b>CK534AX</b>
<b>CK535AX</b>	Pentode	Power Amp.	1.25	20	Fil	5J	1.5	.385	.285	15	-1.25	15		0.32	0.075		0.3	350	1.6	0.05	<b>CK535AX</b>
<b>CK536AX<sup>1</sup></b>	Pentode	Power Amp.	1.25	15	Fil	5E	1.5	.385	.285	22.5	0	22.5		0.36	0.09		0.5	400	1.8	0.075	<b>CK536AX<sup>1</sup></b>
<b>CK537AX<sup>1</sup></b>	Pentode	Power Amp.	1.25	20	Fil	5E	1.515	.390	.290	22.5	-1.5	22.5		0.45	0.12		0.22	400	3.75	0.05	<b>CK537AX<sup>1</sup></b>
<b>CK538DX</b>	Pentode	Voltage Amp.	0.625	15	Fil	5J	1.0	.285	.220	15	-0.625	15		0.0046	0.002		10	18	28 <sup>4</sup>	2.2	<b>CK538DX</b>

See page 3 for reference notes — See pages 18 and 19 for basing diagrams and terminal connections. This data is compiled as a Raytheon service to the Field, it is not intended to indicate type availability.



# SUBMINIATURE TUBES



TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILAMENT			TERM. CONN.	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	LOAD RESIST. meg.	TYPE	
			Volts	Ma.	Type		Length	Width	Thick-ness													
CK539DX	Pentode	Power Amp.	1.25	15	Fil	5J	1.25	.285	.220	22.5	-1.4	22.5		0.25	0.075		0.25	300	2.2	0.1	CK539DX	
CK541DX	Pentode	Power Amp.	1.25	15	Fil	5J	1.25	.285	.220	30	0	30		0.25	0.075		0.5	425	1.4	0.2	CK541DX	
CK542DX	Pentode	Power Amp.	1.25	15	Fil	5J	1.25	.285	.220	22.5	-2.0	22.5		0.425	0.13		0.15	325	3.75	0.05	CK542DX	
CK542DXS <sup>1</sup>	Pentode	Power Amp.	1.25	15	Fil	5J	1.4	.290	.225	22.5	-2	22.5		0.425	0.13		0.15	325	3.75	0.05	CK542DXS <sup>1</sup>	
CK543DX	Pentode	Voltage Amp.	0.625	15	Fil	5J	1.0	.285	.220	15	-0.625	15		0.005	0.0022		5.0	15	20 <sup>4</sup>		CK543DX	
CK544DX	Pentode	Power Amp.	1.25	10	Fil	5J	1.25	.285	.220	30	0	30		0.135	0.035		1.2	325	0.52	0.2	CK544DX	
CK545DX	Pentode	Voltage Amp.	0.625	7.5	Fil	5F	1.0	.290	.235	15	-0.625	15		0.0046	0.002		12	16	25 <sup>4</sup>	2.2	CK545DX	
CK546DX	Pentode	Power Amp.	1.25	10	Fil	5J	1.25	.285	.220	22.5	0	22.5		0.375	0.085		0.2	425	1.75	0.1	CK546DX	
CK547DX	Pentode	Power Amp.	1.25	10	Fil	5J	1.25	.285	.220	30	0	30		0.240	0.060		0.5	425	1.35	0.2	CK547DX	
CK548DX	Pentode	Power Amp.	1.25	10	Fil	5J	1.25	.285	.220	22.5	-1.4	22.5		0.240	0.060		0.25	300	2.1	0.1	CK548DX	
CK549DX	Pentode	Voltage Amp.	0.625	10	Fil	5J	1.0	.285	.220	15	-0.625	15		0.0046	0.002		12.0	17	27 <sup>4</sup>		CK549DX	
CK574AX <sup>1</sup>	Pentode	R-F Amplifier	0.625	20	Fil	5E	1.25	.390	.290	22.5	-0.625	22.5		0.125	0.040		1.25	160			CK574AX <sup>1</sup>	
CK1034	Gas Diode	GM Counter			Cold	3A	2 5/8	Dia. = .400		See Radiation Counter Tube Section for Characteristics												CK1034
CK1035	Gas Diode	GM Counter			Cold	3A	1.5	.385	.285	See Radiation Counter Tube Section for Characteristics												CK1035
CK1036	Gas Diode	HW Rectifier			Cold	5P	1 13/16	Dia. = .400		See Rectifier Tube Section for Characteristics												CK1036
CK1037	Gas Diode	Voltage Reg.			Cold	3A	1.75	Dia. = .400		See Voltage Regulator Tube Section for Characteristics												CK1037
CK1038	Gas Diode	Voltage Reg.			Cold	3A	1.75	Dia. = .400		See Voltage Regulator Tube Section for Characteristics												CK1038
CK1039	Gas Diode	Voltage Reg.			Cold	3A	1.75	Dia. = .400		See Voltage Regulator Tube Section for Characteristics												CK1039
CK1042	Gas Diode	HW Rectifier			Cold	5N	2 1/8	Dia. = .400		See Rectifier Tube Section for Characteristics												CK1042
CK5672	Pentode	Power Amp.	1.25	50	Fil	5F	1.5	.385	.285	67.5	-6.5	67.5		3.25	1.1			650	65	0.020	CK5672	
CK5676	Triode	UHF Osc.	1.25	120	Fil	4B	1.5	.385	.285	135	-5			4		15		1600			CK5676	
CK5677	Triode	UHF Osc.	1.25	60	Fil	4A	1.5	.385	.285	135	-5.5			1.9		16		850			CK5677	
CK5678 <sup>1</sup>	Pentode	R-F Amplifier	1.25	50	Fil	5A	1.5	.385	.285	67.5	5 meg	67.5		1.8	0.48		1.0	1100			CK5678 <sup>1</sup>	
CK5697	Triode	Electrometer	0.625	20	Fil	4C	1.25	.400	.285	12	-3			0.22		2.1		135			CK5697	
CK5702	Pentode	R-F Amplifier	6.3	200	Htr	7C	1.5	Dia. = .400		120	Rk200	120		7.5	2.5		0.34	5000			CK5702	
CK5702WA	Pentode	R-F Amplifier	6.3	200	Htr	7C	1.5	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												CK5702WA
CK5703	Triode	UHF Osc.	6.3	200	Htr	5G	1.5	Dia. = .400		120	Rk220		9		25		5000				CK5703	
CK5703WA	Triode	UHF Osc.	6.3	200	Htr	5G	1.5	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												CK5703WA
CK5704	Diode	Detector	6.3	150	Htr	4D	1.5	Dia. = .315		Max. RMS Plate Voltage = 150v; Max. Io = 9 mdc												CK5704
CK5744	Triode	Amp.-HF Osc.	6.3	200	Htr	5H	1.5	Dia. = .400		250	Rk500		4		70		4000				CK5744	
CK5744WA	Triode	Amp.-HF Osc.	6.3	200	Htr	5H	1.5	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												CK5744WA
CK5783	Gas Diode	Volt. Reference			Cold	3A	1 3/8	Dia. = .400		See Voltage Reference Tube Section for Characteristics												CK5783
CK5783WA	Gas Diode	Volt. Reference			Cold	3A	1 3/8	Dia. = .400		See Voltage Reference Tube Section for Characteristics												CK5783WA
CK5784	Pentode	Mixer-Gated Amp.	6.3	200	Htr	7A	1.5	Dia. = .400		120	-2	120	0	5.2	3.5			3200			CK5784	
CK5784WA	Pentode	Mixer-Gated Amp.	6.3	200	Htr	7A	1.5	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												CK5784WA
CK5785	Diode	HW Rectifier	1.25	15	Fil	7F	1.5	.400	.300	See Rectifier Tube Section for Characteristics												CK5785
CK5787	Gas Diode	Volt. Regulator			Cold	3A	2 1/16	Dia. = .400		See Voltage Regulator Tube Section for Characteristics												CK5787
CK5787WA	Gas Diode	Volt. Regulator			Cold	3A	2 1/16	Dia. = .400		See Voltage Regulator Tube Section for Characteristics												CK5787WA
CK5829	Dble. Diode	Detector	6.3	150	Htr	7FA	1.5	.410	.385	Max. Inverse Peak Voltage = 330v; Max. Io = 5 ma. per plate												CK5829
CK5829WA	Dble. Diode	Detector	6.3	150	Htr	7FA	1.5	.410	.385	See Reliable Cathode Type Subminiature Section for Characteristics												CK5829WA
CK5851 <sup>7</sup>	Beam Pent.	R-F Pwr. Amp	1.25 2.5	110 55	Fil	8CA	1.6	Dia. = .400		125	-7.5	125		5.5	0.9		0.175	1600			CK5851 <sup>7</sup>	
CK5854	Pentode	Power Amp.	1.25	30	Fil	5J	1.5	.385	.285	45	-2.0	45		0.8	0.25		0.35	550	9.5	0.05	CK5854	
CK5873 <sup>7</sup>	Dble. Triode	Voltage Amp.	6.3	300	Htr	8K	1.5	Dia. = .400		150	-3.0			9.0		22		2900	(Each Unit)		CK 5873 <sup>7</sup>	
CK5875 <sup>1</sup>	Pentode	Radiosonde	1.25	100	Fil	5A	1.5	.385	.285	90	0	90		3.5	1.0			2500			CK5875 <sup>1</sup>	

See page 3 for reference notes — See pages 18 and 19 for basing diagrams and terminal connections. This data is compiled as a Raytheon service to the field, it is not intended to indicate type availability.



# SUBMINIATURE TUBES



TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILAMENT			TERM. CONN.	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. $\mu$ mhos	OUTPUT milliwatts	LOAD RESIST. meg.	TYPE	
			Volts	Ma.	Type		Length	Width	Thick-ness													
<b>CK5884</b>	Dble. Tetr.	Electrometer	1.25	10	Fil	5K	1.625	.400	.285	4.5	-3.0			0.02		0.75		15	Nom. $I_c^1 = 1 \times 10^{-14}$	<b>CK5884</b>		
<b>CK5885</b> <sup>7</sup>	Dble. Tetr.	Electrometer	1.25	20	Fil	8CC	1.625	Dia. = .389		13.5	-3.0			0.185		2.4		160	Nom. $I_c^1 = 1 \times 10^{-12}$	<b>CK5885</b> <sup>7</sup>		
<b>CK5886</b>	Pentode	Electrometer	1.25	10	Fil	5C	1.5	.400	.285	10.5	3	Triode Conn.		0.2		2		160	Max. $I_c^1 = 2 \times 10^{-13}$ amp.	<b>CK5886</b>		
<b>CK5889</b>	Pentode	Electrometer	1.25	7.5	Fil	4G	1.6	Dia. = .400		12	-2.0	4.5		0.005	0.005		18	14	Max. $I_c^1 = 3 \times 10^{-15}$ amp.	<b>CK5889</b>		
<b>CK5967</b> <sup>7</sup>	Dble. Triode	R-F Amplifier	1.25	120	Fil	8CK	1.75	Dia. = .400		45	Rg = 5 meg.			3.0		18		2000	(Each Unit)	<b>CK5967</b> <sup>7</sup>		
<b>CK5968</b> <sup>7</sup>	Dble. Triode	Mixer	1.25	120	Fil	8CE	1.75	Dia. = .400		45	0			0.7		45		1300	(Each Unit)	<b>CK5968</b> <sup>7</sup>		
<b>CK5969</b> <sup>7</sup>	Dble. Tetr.	R-F Pwr. Amp.	1.25	200	Fil	8CB	1.62	Dia. = .400		135	-3	45		6.0	0.5			1700	(Each Unit)	<b>CK5969</b> <sup>7</sup>		
<b>CK5970</b> <sup>7</sup>	Dble. Pent.	R-F Amplifier	1.25	160	Fil	8CD	1.75	Dia. = .400		45	Rg = 5 meg.	45		3.0	0.9		0.17	1850	(Each Unit)	<b>CK5970</b> <sup>7</sup>		
<b>CK5971</b>	Triode	Amp.-Osc.	1.25	80	Fil	7CD	1.5	.385	.285	135	-3			4.0		23		2150		<b>CK5971</b>		
<b>CK5972</b> <sup>1</sup>	Pentode	R-F Amplifier	1.25	60	Fil	5A	1.5	.400	.300	67.5	Rg = 2 meg.	67.5		1.9	0.5		1.0	1150		<b>CK5972</b> <sup>1</sup>		
<b>CK5975</b>	Triode	Amp.-Osc.	6.3	175	Htr	7BB	1.5	Dia. = .400		100	Rk270			10		17.5		5100		<b>CK5975</b>		
<b>CK5995</b>	Diode	HW Rectifier	6.3	300	Htr	7BA	1.75	Dia. = .400		See Rectifier Tube Section for Characteristics												<b>CK5995</b>
<b>CK6021</b> <sup>7</sup>	Dble. Triode	Voltage Amp.	6.3	300	Htr	8CF	1 3/4	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												<b>CK6021</b> <sup>7</sup>
<b>CK6029</b>	Triode	UHF Osc.	1.25	200	Fil	4A	1.5	.385	.285	90	-4			11		8.5		2000		<b>CK6029</b>		
<b>CK6050</b>	Triode	UHF Osc.	1.25	120	Fil	4A	1.5	.385	.285	135	-5			4.0		16		1600		<b>CK6050</b>		
<b>CK6051</b>	Pentode	Power Amp.	1.25	100	Fil	5L	1.5	.385	.285	45	-4	45		3.0	0.9		0.035	1200	50	0.02	<b>CK6051</b>	
<b>CK6088</b>	Pentode	Power Amp.	1.25	20	Fil	5F	1.5	.385	.285	45	-1.25	45		0.55	0.135		0.85	550	9.5	0.2	<b>CK6088</b>	
<b>CK6092</b>	Pentode	Power Amp.	1.25	50	Fil	5F	1.5	.385	.285	67.5	-6.5	67.5		2.9	0.8			750	80	0.02	<b>CK6092</b>	
<b>CK6110</b> <sup>7</sup>	Dble. Diode	FW Rectifier	6.3	150	Htr	8CH	1 3/4	Dia. = .400		See Rectifier Tube Section for Characteristics												<b>CK6110</b> <sup>7</sup>
<b>CK6111</b> <sup>7</sup>	Dble. Triode	Voltage Amp.	6.3	300	Htr	8CF	1 3/4	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												<b>CK6111</b> <sup>7</sup>
<b>CK6112</b> <sup>7</sup>	Dble. Triode	Voltage Amp.	6.3	300	Htr	8CF	1 3/4	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												<b>CK6112</b> <sup>7</sup>
<b>CK6147</b> <sup>7-9</sup>	Beam Pentode	RF Pwr Amp.	1.25 2.5	125 62.5	Fil	8CG	1.6	Dia. = .400		125	-7.5	125		5.5	0.9		0.175	1600			<b>CK6147</b> <sup>7-9</sup>	
<b>CK6152</b>	Triode	Amp.-Osc.	6.3	200	Htr	7BB	1.5	Dia. = .400		See Reliable Cathode Type Subminiature Section for Characteristics												<b>CK6152</b>
<b>CK6213</b>	Gas Diode	Voltage Ref.			Cold	3A	1 3/4	Dia. = .400		See Voltage Reference Tube Section for Characteristics												<b>CK6213</b>



# RUGGED TUBES



TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILAMENT			BASING	MAX. DIMENSIONS		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. $\mu$ mhos	TYPE
			Volts	Amps	Type		Height	Diam.										
<b>RK3B24W</b>	Diode	HW Rectifier	2.5 5.0	3.0 3.0	Fil	8EA	4 <sup>13</sup> / <sub>16</sub>	1 1/2	See Rectifier Tube Section for Characteristics									<b>RK3B24W</b>
<b>5R4WGY</b>	Dble. Diode	FW Rectifier	5.0	2.0	Fil	8WB	5 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	See Rectifier Tube Section for Characteristics									<b>5R4WGY</b>
<b>6AK5W</b>	Pentode	RF Amplifier	6.3	0.175	Htr	7BD	1 <sup>3</sup> / <sub>4</sub>	3/4	120	-2	120		7.5	2.5		0.34	5000	<b>6AK5W</b>
<b>6AL5W</b>	Dble. Diode	Detector	6.3	0.3	Htr	9M	1 <sup>3</sup> / <sub>4</sub>	3/4	Max. Peak Inverse = 330 v; Max. Io = 9 madc per plate									<b>6AL5W</b>
<b>6AS6W</b>	Pentode	Mixer-Gated Amp.	6.3	0.175	Htr	9P	1 <sup>3</sup> / <sub>4</sub>	3/4	120	-2	120	0	5.2	3.5			3200	<b>6AS6W</b>
<b>6C4W</b>	Triode	Osc.-Amplifier	6.3	0.15	Htr	9U	1 <sup>3</sup> / <sub>4</sub>	3/4	250	-8.5			10.5		17		2200	<b>6C4W</b>
<b>6J5WGT</b>	Triode	Voltage Amplifier	6.3	0.3	Htr	9R	3 <sup>5</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	250	-8			9.0		20		2600	<b>6J5WGT</b>
<b>6J6W</b>	Dble. Triode	UHF Oscillator	6.3	0.45	Htr	7BF	2 <sup>1</sup> / <sub>4</sub>	3/4	100	Rk50			8.5		38		5300 (Each Unit)	<b>6J6W</b>
<b>6SA7WGT</b>	Heptode	Converter	6.3	0.3	Htr	9V	3 <sup>5</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>32</sub>	250	Rg = 20000	100	-2	3.5	8.3		1.0	450 <sup>3</sup>	<b>6SA7WGT</b>
<b>6SJ7WGT</b>	Pentode	RF-AF Amplifier	6.3	0.3	Htr	9L	3 <sup>5</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	250	-3	100	0	3.0	0.8		> 1.0	1650	<b>6SJ7WGT</b>
<b>6SN7WGT</b>	Dble. Triode	Voltage Amplifier	6.3	0.6	Htr	8BD	3 <sup>5</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	250	-8			9.0		20		2600 (Each Unit)	<b>6SN7WGT</b>
<b>6X4W</b>	Dble. Diode	FW Rectifier	6.3	0.6	Htr	9Q	2 <sup>5</sup> / <sub>8</sub>	3/4	See Rectifier Tube Section for Characteristics									<b>6X4W</b>
<b>6X5WGT</b>	Dble. Diode	FW Rectifier	6.3	0.6	Htr.	8XB	3 <sup>5</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	See Rectifier Tube Section for Characteristics									<b>6X5WGT</b>
<b>12J5WGT</b>	Triode	Voltage Amplifier	12.6	0.15	Htr	9R	3 <sup>5</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	250	-8			9.0		20		2600	<b>12J5WGT</b>

## RADIATION COUNTER (GEMER-MUELLER) TUBES

(All glass, self-quenching)

TYPE	MAX. DIMENSIONS Inches		TERM. CONN.	OPERATING VOLTAGE RANGE Volts dc	PLATEAU LENGTH Volts dc	RELATIVE PLATEAU SLOPE Per 100v	GEIGER THRESHOLD Volts dc max.	BACKGROUND Unshielded counts/min.	AMBIENT TEMP. RANGE °Cent.	WALL WEIGHT Nominal mg./sq.cm.	EFFICIENCY %	LIFE counts	TYPE
	Length	Diam.											
<b>CK1B90</b>	8 1/4	1 <sup>3</sup> / <sub>16</sub>	8HA	Thres. +50	> 150	3%	1100	60	-40 to +50	35	90	10 <sup>8</sup>	<b>CK1B90</b>
<b>CK1018</b>	8 1/4	1 <sup>3</sup> / <sub>16</sub>	8HA	850-950	> 150	3%	850	60	-40 to +55	35	90	10 <sup>8</sup>	<b>CK1018</b>
<b>CK1019</b>	8 1/4	1 <sup>3</sup> / <sub>16</sub>	8HA	875-975	> 150	3%	880	60	-40 to +55	35	90	10 <sup>8</sup>	<b>CK1019</b>
<b>CK1020</b>	6	3/4	9S	850-950	> 150	3%	850	60	-40 to +55	35	90	10 <sup>8</sup>	<b>CK1020</b>
<b>CK1021</b>	5 1/4	2 <sup>1</sup> / <sub>32</sub>	9S	850-950	> 150	3%	850	60	-40 to +55	35	90	10 <sup>8</sup>	<b>CK1021</b>
<b>CK1023</b>	5	3/4	5DA	850-950	> 150	3%	850	60	-40 to +55	35	90	10 <sup>8</sup>	<b>CK1023</b>
<b>CK1026</b>	3	3/4	8HB	850-950	> 150	30%	760	30	-70 to +50	175		10 <sup>8</sup>	<b>CK1026</b>
<b>CK1029</b>	5 1/4	2 <sup>1</sup> / <sub>32</sub>	9S	850-950	> 150	3%	850	60	-40 to +55	35	90	10 <sup>8</sup>	<b>CK1029</b>
<b>CK1032</b>	3	3/4	8HB	1050-1200	> 150	30%	1000	30	-70 to +50	175		10 <sup>8</sup>	<b>CK1032</b>
<b>CK1034</b>	2 3/4	0.400	3A	700		20%	585		-55 to +70	Hvy		> 10 <sup>10</sup>	<b>CK1034</b>
<b>CK1035</b>	1.5	W = .385 Th = .285	3A	700			585		-55 to +70	Hvy		> 10 <sup>10</sup>	<b>CK1035</b>

See page 3 for reference notes — See pages 18 and 19 for basing diagrams and terminal connections. This data is compiled as a Raytheon service to the Field, it is not intended to indicate type availability.

# RELIABLE TUBES

Since the announcement in October 1951 of the first five RELIABLE cathode type subminiature tubes, Raytheon has been requested by the Armed Services to change the type numbers originally registered to new numbers which would more clearly identify each tube's association with its prototype. Accordingly, type 6148 is now known as type 5702WA, type 6149 as 5703WA, type 6150 as 5784WA, and type 6151 as 5744WA. This change is in type number only and in no way affects the quality of the tubes offered for sale. Type 6152, having no prototype with 0.200 amp. heater, remains unchanged in type designation.

Although certain minor modifications in tube structure have been made to meet new test requirements, the entire line of RELIABLE cathode type subminiature tubes, with the exception of the button stem types, is basically the same group

## TUBE RELIABILITY

Today RELIABILITY is a very important word in the electronic industry. More reliable component parts, particularly electron tubes, are essential to the success of most modern electronic applications. To be considered reliable, an electron tube must be capable of performing a desired function in an equipment with a very low probability of failure for some definite life period. The "desired function" which any particular tube type may be expected to perform may vary widely from one application to another. In one equipment, stability of some particular electrical characteristic may be the prime consideration — in another, mechanical stability under vibration or shock; still another, may require very long life under normal or perhaps even a high ambient temperature, and so on. Unfortunately, the design and processing of any one particular tube type to meet these various and in some cases conflicting reliability requirements is limited not only by the ingenuity of the manufacturer but in many cases by the Laws of Nature. Tube manufacture is a series of compromises and the most reliable tubes are made by the manufacturer who through his experience and knowledge of application requirements makes the most judicious compromises in his design and manufacturing procedures.

Raytheon's field experience with the prototypes of the flat press Reliable tube types has indicated the desirability of sacrificing heater power for improved reliability of certain performance characteristics. These types have been designed with somewhat higher heater current and higher cathode temperature than has been common in other cathode type subminiatures of this general class. The higher cathode temperature results in:

1. Lower vibrational output since it permits tighter cathode to mica spacer fit (limited by heat loss through spacers on lower temperature cathodes)
2. Improved low heater voltage performance
3. Improved peak current output for class C and pulse applications
4. Improved high temperature life performance by increasing resistance of cathode to gas poisoning
5. Reduced shot effect noise and partition noise by maintaining a higher

of special purpose subminiature tubes which Raytheon has been producing since 1941. This line of subminiature tubes has been in *continuous* production for the past five years. Filament type subminiatures with many similar structural features have been in continuous production for twelve years. Button stem types have been in low scale production for the last two years. Sufficient field and design test data have now been accumulated to permit announcement of these tubes as RELIABLE types.

It is planned to add additional types to the Raytheon RELIABLE line in succeeding months. These new types will all carry RELIABLE ratings and will be released as soon as sufficient long life and other performance data are accumulated to insure reliable field results.

transconductance level at lower heater supply voltage conditions and throughout life.

In analyzing the factors influencing reliability in electron tubes, consideration must be given to the causes of failure of tubes now in service. A tube may fail prematurely in service for one of two basic reasons; either it was improperly manufactured or it was improperly used. *Manufacturing* defects may be either electrical or mechanical in nature and are the result of poor workmanship on the part of the tube supplier. *Application* defects may be either mechanical or electrical in nature and are a result of insufficient knowledge on the part of tube user of the limitations of the tube type involved.

Factors which influence manufacturing defects are:

1. Improper tube design
2. Inadequate personnel training and supervision
3. Improper equipment setup, maintenance and operation
4. Inadequate processing schedules
5. Insufficient quality control.

There is no substitute for *manufacturing* experience in the control of these factors. Continuity of production is the best guarantee of low probability of failure caused by manufacturing defects.

Factors which influence application defects are:

1. Insufficient published data on tube characteristics
  2. Low margin of safety on published ratings
  3. Low margin of safety in circuit design;
    - a. failure to take into account normal characteristics spread,
    - b. use of tubes outside of published ratings,
    - c. lack of appreciation of characteristics changes during life.
  4. Circuit design dependence upon uncontrolled tube characteristic
- Good liaison between the tube producer and the tube user is the best guarantee of low probability of failure caused by application defects.





# RELIABLE CATHODE TYPE SUBMINIATURE TUBES



TYPE	CONSTRUCTION	TYPICAL APPLICATION	HEATER		TERM. CONN.	MAX. DIMENSIONS		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. umhos	TYPE
			Volts	Amps.		Height	Diam.										
<b>CK5702WA</b>	Pentode	RF Amplifier	6.3	0.2	7C	1.5	.400	120	Rk200	120	0	7.5	2.5		0.34	5000	<b>CK5702WA</b>
<b>CK5703WA</b>	Triode	UHF Osc.	6.3	0.2	5G	1.5	.400	120	Rk200			9.0		25		5000	<b>CK5703WA</b>
<b>CK5744WA</b>	Triode	Amp.-HF Osc.	6.3	0.2	5H	1.5	.400	250	Rk500			4.0		70		4000	<b>CK5744WA</b>
<b>CK5783WA</b>	Gas Diode	Volt. Reference	Cold		3A	1 3/8	.400	See Voltage Reference Tube Section for Characteristics									<b>CK5783WA</b>
<b>CK5784WA</b>	Pentode	Mixer-Gated Amp.	6.3	0.2	7A	1.5	.400	120	-2	120	0	5.2	3.5			3200	<b>CK5784WA</b>
<b>CK5787WA</b>	Gas Diode	Volt. Regulator	Cold		3A	2 1/16	.400	See Voltage Regulator Tube Section for Characteristics									<b>CK5787WA</b>
<b>CK5829WA</b>	Dble. Diode	Detector	6.3	.015	7FA	1.5	W = .410 Th = .385	Max. Inverse Peak Voltage = 330 v; Max. Io = 5 ma. per plate									<b>CK5829WA</b>
<b>CK6021<sup>7</sup></b>	Dble. Triode	Voltage Amp.	6.3	0.3	8CF	1 3/8	.400	100	Rk150			6.5		35		5400 (Each Unit)	<b>CK6021<sup>7</sup></b>
<b>CK6110<sup>7</sup></b>	Dble. Diode	FW Rectifier	6.3	0.15	8CH	1 3/8	.400	See Rectifier Tube Section for Characteristics									<b>CK6110<sup>7</sup></b>
<b>CK6111<sup>7</sup></b>	Dble. Triode	Voltage Amp.	6.3	0.3	8CF	1 3/8	.400	100	Rk220			8.5		20		5000 (Each Unit)	<b>CK6111<sup>7</sup></b>
<b>CK6112<sup>7</sup></b>	Dble. Triode	Voltage Amp.	6.3	0.3	8CF	1 3/8	.400	100	Rk1500			0.8		70		1800 (Each Unit)	<b>CK6112<sup>7</sup></b>
<b>CK6152</b>	Triode	Amp.-Osc.	6.3	0.2	7BB	1.5	.400	200	Rk680			12.5		15.5		4000	<b>CK6152</b>

## RELIABLE MINIATURE TUBES

TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILAMENT			BAS-ING	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. umhos	OUT-PUT watts	LOAD RESIST. ohms	TYPE
			Volts	Amps.	Type		Height	Diam.												
<b>CK5654</b>	Pentode	R-F Amplifier	6.3	0.175	Htr	7BD	1 3/4	3/4	120	Rk200	120		7.5	2.5		0.34	5000			<b>CK5654</b>
<b>CK5670</b>	Dble. Triode	Voltage Amp.	6.3	0.35	Htr	8CJ	1 3/4	7/8	150	Rk240			8.2		35		5500	(Each Unit)		<b>CK5670</b>
<b>CK5686</b>	Pentode	RF-AF Power Amp.	6.3	0.35	Htr	9J	2 3/16	7/8	250	-12.5	250		27	3.0			3300	2.7	9000	<b>CK5686</b>
<b>CK5725</b>	Pentode	Mixer-Gated Amp.	6.3	0.175	Htr	9P	1 3/4	3/4	120	-2	120	0	5.2	3.5			3200			<b>CK5725</b>
<b>CK5726</b>	Dble. Diode	Same as 6AL5	6.3	0.3	Htr	9M	1 3/4	3/4	Max. Peak Inverse = 330v; Max. Io = 9 mADC per Plate.											<b>CK5726</b>
<b>CK5749</b>	Pentode	R-F Amplifier	6.3	0.3	Htr	9X	2 1/8	3/4	250	Rk68	100	0	11	4.2		1.0	4400			<b>CK5749</b>
<b>CK5750</b>	Heptode	Converter	6.3	0.3	Htr	8Z	2 1/8	3/4	250	Rg20k	100	-1.5	2.6	7.5		1.0	475 <sup>8</sup>			<b>CK5750</b>
<b>CK5751</b>	Dble. Triode	Voltage Amp.	6.3 12.6	0.35 0.175	Htr	9W	2 3/16	7/8	250	-3			1.0		70	0.058	1200	(Each Unit)		<b>CK5751</b>
<b>CK5814</b>	Dble. Triode	Voltage Amp.	6.3 12.6	0.35 0.175	Htr	9W	2 3/16	7/8	250	-8.5			10.5		17	0.0077	2200	(Each Unit)		<b>CK5814</b>
<b>CK6186</b>	Pentode	RF Amplifier	6.3	0.3	Htr	7BD	2 1/8	0.75	250	Rk200	150		7.0	2.0		0.8	5000			<b>CK6186</b>
<b>CK6187</b>	Pentode	Mixer-Gated Amp.	6.3	0.15	Htr	9P	1 3/4	0.75	120	-2	120	0	5.2	3.5			3200			<b>CK6187</b>



# GERMANIUM CRYSTAL DIODES



TYPE	TYPICAL APPLICATION	TERM. CONN.	MAX. DIMENSIONS Inches			MAX. DC INVERSE VOLT-AGE	MAX. PEAK ANODE CURR. ma.	MAX. AVERAGE DC ANODE CURR. ma.	MIN. FOR- WARD CURRENT AT +1 Volt ma.	MAX. INVERSE CURRENT AT -5 Volts ma.	MAX. INVERSE CURRENT AT -10 Volts ma.	MAX. INVERSE CURRENT AT -50 Volts ma.	MAX. INVERSE CURRENT AT -100 Volts ma.	MIN. INVERSE VOLTAGE FOR ZERO DYNAMIC RESIST. ma.	AVE. INVERSE CURRENT AT -50 Volts 70°C. ma.	SHUNT CAP. mmf.	AMBIENT TEMP. RANGE °Cent.	TYPE
			Length	Diam.	Lead Length													
<b>1N66</b>	Gen. Purpose Diode	7CC	0.400	0.175	1	60	150	50	5.0		0.05	0.8		70	0.43	1.0	-50 to +100	<b>1N66</b>
<b>1N67</b>	50V DC Restorer	7CC	0.400	0.175	1	80	100	35	4.0	0.005		0.05		100	0.1	1.0	-50 to +100	<b>1N67</b>
<b>1N68</b>	100V DC Restorer	7CC	0.400	0.175	1	100	100	35	3.0					120	0.15	1.0	-50 to +100	<b>1N68</b>
<b>CK705</b>	Gen. Purpose Diode	7CC	0.400	0.175	1	60	150	50	5.0		0.05	0.8		70	0.43	1.0	-50 to +100	<b>CK705</b>
<b>CK706</b>	Video Detector	7CC	0.385	0.140	1	RF efficiency at 60 MC is approx. 50%					0.20			50			-50 to +100	<b>CK706</b>
<b>CK707</b>	50V DC Restorer	7CC	0.400	0.175	1	80	100	35	3.5	0.008		0.10		100	0.18	1.0	-50 to +100	<b>CK707</b>
<b>CK708</b>	100V DC Restorer	7CC	0.400	0.175	1	100	100	35	3.0				0.625	120	0.15	1.0	-50 to +100	<b>CK708</b>
<b>CK709</b>	4 Matched Diodes	8L	2 5/8	1 5/16	Octal Base	60	150	50		Matched within 2.5% at +1 Volt.							-50 to +100	<b>CK709</b>
<b>CK710</b>	UHF Converter	7CC	0.385	0.140	1	3	150	50	3.0 at 0.5v	0.2 at -0.6v						1.7	-50 to +100	<b>CK710</b>
<b>CK711</b>	4 Matched Diodes	8L	1.75	1 3/16	Octal Base	80	100	35	Special matched sections. Refer to Data Sheet.								-50 to +100	<b>CK711</b>
<b>CK712</b>	200 Volt Diode	7CC	0.400	0.175	1	200	70	22.5	1.0	Max. dissipation 80 mw at 25°C.		0.8 at -200v	225			1.0	-50 to +100	<b>CK712</b>
<b>CK713</b>	Computer Diode	7CC	0.400	0.175	1	75	150	50	21 at +2v			0.25 at -40v	(DC characteristics at 50°C.)		1.0	-50 to +100	<b>CK713</b>	
<b>CK715</b>	Freq. Multiplier	7CC	0.385	0.140	1	40	125	35	10		0.20			50			-50 to +100	<b>CK715</b>

Note: DC characteristics change with temperature, unless otherwise noted all characteristics are at 25°C.

## TRANSISTORS

TYPE	CONSTRUCTION	TYPICAL APPLICATION	BASING	MAX. DIMENSIONS Inches		COLLECTOR VOLTS	EMITTER VOLTS	COLLECTOR CURR. ma.	EMITTER CURR. ma.	CURRENT AMPLIFICATION minimum	FREQ. RESPONSE minimum	NOISE FIGURE at 1 KC maximum	TYPE
				Height	Diam.								
<b>CK716</b>	Point Contact	AF-RF Amplifier	9N	0.65	0.255	-15	0.5	2.5	1.0	1.2	100 kc	65 db.	<b>CK716</b>



# RECTIFIER TUBES



TYPE	CONSTRUCTION	HEATER or FILAMENT			BASING	MAX. DIMENSIONS Inches		MAX. PEAK INVERSE VOLTAGE	MAX. PEAK PLATE CURRENT PER PLATE	MAX. DC OUTPUT CURRENT	AVERAGE TUBE DROP Volts	BASE	TYPE
		Volts	Amps.	Type		Height	Diam.						
<b>BH</b>	Full Wave—Gas			Cold	8EC	4 $\frac{3}{8}$	1 $\frac{13}{16}$	1,000	400 ma.	125 ma.	90	4-pin	<b>BH</b>
<b>0Z4A/ CK1003</b>	Full Wave—Gas			Cold	8XA	2 $\frac{3}{8}$	1 $\frac{5}{16}$	880	330 ma.	110 ma.	24	Octal	<b>0Z4A/ CK1003</b>
<b>2X2A</b>	Half Wave—High Vacuum	2.5	1.75	Htr	8ED	4 $\frac{17}{32}$	1 $\frac{9}{16}$	12,500	60 ma.	7.5 ma.		4-pin	<b>2X2A</b>
<b>3B24W</b>	Half Wave—High Vacuum	2.5 5.0	3.0 3.0	Htr Fil	8EA	4 $\frac{13}{16}$	1 $\frac{1}{2}$	20,000 20,000	150 ma. 300 ma.	30 ma. 60 ma.		4-pin	<b>3B24W</b>
<b>3B26</b>	Clipper Diode—High Vacuum	2.5	4.75	Htr	8X	4 $\frac{3}{8}$	1 $\frac{5}{16}$	15,000	8 amp.	20 ma.	130	Octal	<b>3B26</b>
<b>3B29</b>	Half Wave—High Vacuum	2.5	4.75	Htr	See Data	5 $\frac{3}{8}$	1 $\frac{9}{16}$	16,000	250 ma.	65 ma.	130	4-pin	<b>3B29</b>
<b>4B31</b>	Clipper Diode—High Vacuum	5.0	5.25	Htr	See Data	6 $\frac{3}{8}$	2 $\frac{9}{16}$	16,000	16 amp.	60 ma.	150	Jumbo 4-pin	<b>4B31</b>
<b>5R4GY</b>	Full Wave—High Vacuum	5.0	2.0	Fil.	8WB	5 $\frac{5}{16}$	2 $\frac{1}{16}$	2,800	650 ma.	175 ma.		Octal	<b>5R4GY</b>
<b>5R4WGY</b>	Full Wave—High Vacuum	5.0	2.0	Fil.	8WB	5 $\frac{5}{16}$	2 $\frac{1}{16}$	2,800	650 ma.	175 ma.		Octal	<b>5R4WGY</b>
<b>6X4W</b>	Full Wave—High Vacuum	6.3	0.6	Htr	9Q	2 $\frac{3}{8}$	0.75	1,250	210 ma.	70 ma.		Octal	<b>6X4W</b>
<b>6X5WGT</b>	Full Wave—High Vacuum	6.3	0.6	Htr	8XB	3 $\frac{5}{16}$	1 $\frac{5}{16}$	1,250	210 ma.	70 ma.	22	Octal	<b>6X5WGT</b>
<b>RK72</b>	Half Wave—High Vacuum	2.5	3.0	Fil.	8EB	4 $\frac{13}{16}$	1 $\frac{1}{2}$	20,000	150 ma.	30 ma.	200	4-pin	<b>RK72</b>
<b>RK73</b>	Half Wave—High Vacuum	2.5	4.25	Fil.	8AB	4 $\frac{3}{8}$	1 $\frac{5}{16}$	13,000	3 amp.	20 ma.	135	Octal	<b>RK73</b>
<b>RX120</b>	Half Wave—Mercury, Argon	2.5	30.0	Htr	See Data	8 $\frac{15}{16}$	3 $\frac{13}{16}$	150	120 amp.	20 amp.	5	Mogul	<b>RX120</b>
<b>RX120A</b>	Half Wave—Mercury	2.5	30.0	Htr	See Data	8 $\frac{15}{16}$	3 $\frac{13}{16}$	300 750	120 amp. 120 amp.	20 amp. 10 amp.	6 6	Mogul	<b>RX120A</b>
<b>RX212</b>	Half Wave—Mercury	2.5	30.0	Htr	See Data	12	3 $\frac{3}{8}$	1,000	120 amp.	20 amp.	10	Mogul	<b>RX212</b>
<b>RX215</b>	Full Wave—Mercury	2.5	30.0	Htr	See Data	8	3 $\frac{3}{8}$	500	90 amp.	15 amp.	10	S. Jumbo 4-pin	<b>RX215</b>
<b>RK816</b>	Half Wave—Mercury	2.5	2.0	Fil.	8EB	4 $\frac{11}{16}$	1 $\frac{9}{16}$	7,500	500 ma.	125 ma.		4-pin	<b>RK816</b>
<b>RK866A</b>	Half Wave—Mercury	2.5	5.0	Fil.	8EB	6 $\frac{9}{16}$	2 $\frac{7}{16}$	10,000	1 amp.	250 ma.	15	4-pin	<b>RK866A</b>
<b>RK872A</b>	Half Wave—Mercury	5.0	7.5	Fil.	See Data	8 $\frac{1}{2}$	2 $\frac{9}{16}$	10,000	5 amp.	1.25 amp.	10	Jumbo 4-pin	<b>RK872A</b>
<b>CK1005</b>	Full Wave—Gas	6.3	0.1	Note Below	8Y	2 $\frac{3}{8}$	1 $\frac{5}{16}$	450	210 ma.	70 ma.	20	Octal	<b>CK1005</b>
<b>CK1006</b>	Full Wave—Gas	1.75	2.0	Note Below	8EF	4 $\frac{11}{16}$	1 $\frac{13}{16}$	1,600	600 ma.	200 ma.	20	4-pin	<b>CK1006</b>
<b>CK1007</b>	Full Wave—Gas	1.0	1.2	Note Below	8WA	2 $\frac{3}{8}$	1 $\frac{5}{16}$	980	330 ma.	110 ma.	24	Octal	<b>CK1007</b>
<b>CK1012</b>	Full Wave—Gas	1.75	2.0	Note Below	8EF	4 $\frac{11}{16}$	1 $\frac{13}{16}$	1,200	900 ma.	300 ma.	25	4-pin Med.	<b>CK1012</b>
<b>CK1024</b>	Full Wave—Gas			Cold	8XA	2 $\frac{3}{8}$	1 $\frac{5}{16}$	1,000	480 ma.	175 ma.	24	Octal	<b>CK1024</b>
<b>CK1028</b>	Half Wave—Gas	6.3	0.55	Fil.	8VA	2 $\frac{1}{4}$	$\frac{3}{4}$	2,500	300 ma.	100 ma.	15	7-pin Min.	<b>CK1028</b>
<b>CK1036</b>	Half Wave—Gas			Cold	5P	1 $\frac{13}{16}$	0.400	1,500	10 ma.	100 $\mu$ a.		Flex. Leads	<b>CK1036</b>
<b>CK1042</b>	Half Wave—Gas			Cold	5N	2 $\frac{1}{8}$	0.400	2,800	30 ma.	8 ma.	120	Flex. Leads	<b>CK1042</b>
<b>1641/RK60</b>	Full Wave—High Vacuum	5.0	3.0	Fil.	8E	5 $\frac{3}{8}$	2 $\frac{1}{16}$	4,500 2,500	150 ma. 330 ma.	50 ma. 250 ma.	60	4-pin	<b>1641/RK60</b>
<b>CK5517</b>	Half Wave—Gas			Cold	7CB	2 $\frac{1}{4}$	$\frac{3}{4}$	2,800	100 ma.	12 ma.	100	7-pin Min.	<b>CK5517</b>
<b>CK5642</b>	Half Wave—High Vacuum	1.25	0.14	Fil.	5DB	2	0.210	10,000	Television Pulse Rect.			Flex. Leads	<b>CK5642</b>
<b>CK5785</b>	Half Wave—High Vacuum	1.25	0.015	Fil.	7F	1 $\frac{1}{2}$	W = 0.4 Th = 0.3	3,500	450 $\mu$ a.	100 $\mu$ a.	17	Flex. Leads	<b>CK5785</b>
<b>CK5995</b>	Half Wave—Gas	6.3	0.3	Htr	7BA	1 $\frac{3}{4}$	0.400	850	275 ma.	45 ma.	25	Flex. Leads	<b>CK5995</b>
<b>CK6110<sup>7</sup></b>	Full Wave—High Vacuum	6.3	0.15	Htr	8CH	1 $\frac{3}{8}$	0.400	460	26.5 ma.	8 ma.		Flex. Leads	<b>CK6110<sup>7</sup></b>
<b>CK6174</b>	Half Wave—Gas			Cold	7CB	2 $\frac{1}{4}$	$\frac{3}{4}$	2,800	30 ma.	3 ma.	100	7-pin Min.	<b>CK6174</b>

See page 3 for reference notes — See pages 18 and 19 for basing diagrams and terminal connections.  
 This data is compiled as a Raytheon service to the field, it is not intended to indicate type availability.  
 Note: May be used as ionic heated cathode rectifier under some conditions.





# VOLTAGE REGULATOR-VOLTAGE REFERENCE TUBES



TYPE	TYPICAL APPLICATION	BASING	MAX. DIMENSIONS Inches		MIN. STARTING VOLTAGE SUPPLY	OPERATING VOLTAGE Approx.	MIN. OPERATING CURRENT ma.	MAX. OPERATING CURRENT ma.	MAX. REGULATION Volts	TYPE
			Height	Diam.						
<b>0A2</b>	Voltage Regulator	7G	2 3/8	3/4	185	150	5	30	6	<b>0A2</b>
<b>0A3/VR75</b>	Voltage Regulator	9T	4 1/8	1 9/16	105	75	5	40	5	<b>0A3/VR75</b>
<b>0B2</b>	Voltage Regulator	7G	2 3/8	3/4	133	108	5	30	4	<b>0B2</b>
<b>0B3/VR90</b>	Voltage Regulator	9T	4 1/8	1 9/16	125	90	10	30	8	<b>0B3/VR90</b>
<b>0C3/VR105</b>	Voltage Regulator	9T	4 1/8	1 9/16	133	105	5	40	4	<b>0C3/VR105</b>
<b>0D3/VR150</b>	Voltage Regulator	9T	4 1/8	1 9/16	185	150	5	40	5.5	<b>0D3/VR150</b>
<b>1B46</b>	Voltage Regulator	9Z	1.66	0.63	250	82	1	2	3	<b>1B46</b>
<b>1B47</b>	Voltage Regulator	9Z	1.66	0.63	250	82	1	2	3	<b>1B47</b>
<b>CK1017</b>	Voltage Regulator	7H	2 11/16	3/4	800	700	0.005	0.055	20	<b>CK1017</b>
<b>CK1022</b>	Voltage Regulator	7H	2 11/16	3/4	1100	1000	0.005	0.055	20	<b>CK1022</b>
<b>CK1037</b>	Voltage Regulator	3A	1.75	0.400	730	700	0.005	0.100	15	<b>CK1037</b>
<b>CK1038</b>	Voltage Regulator	3A	1.75	0.400	930	900	0.005	0.055	15	<b>CK1038</b>
<b>CK1039</b>	Voltage Regulator	3A	1.75	0.400	1230	1200	0.005	0.100	25	<b>CK1039</b>
<b>CK5651</b>	Voltage Reference	7G	2 1/8	3/4	115	82-92	1.5	3.5	3	<b>CK5651</b>
<b>CK5783</b>	Voltage Reference	3A	1 1/8	0.400	115	82-92	1.5	3.5	3	<b>CK5783</b>
<b>CK5783WA</b>	Voltage Reference	3A	1 1/8	0.400	115	82-92	1.5	3.5	3	<b>CK5783WA</b>
<b>CK5787</b>	Voltage Regulator	3A	2 1/16	0.400	145	100	5	30	6	<b>CK5787</b>
<b>CK5787WA</b>	Voltage Regulator	3A	2 1/16	0.400	145	100	1	25	4	<b>CK5787WA</b>
<b>CK5962</b>	Voltage Regulator	8W	2 11/16	3/4	730	700	0.002	0.055	15	<b>CK5962</b>
<b>CK6073</b>	Voltage Regulator	7G	2 3/8	3/4	185	150	5	30	6	<b>CK6073</b>
<b>CK6074</b>	Voltage Regulator	7G	2 3/8	3/4	133	108	5	30	4	<b>CK6074</b>
<b>CK6213</b>	Voltage Reference	3A	1 3/8	0.400	200	127-133	1	2.5	2	<b>CK6213</b>

## THYRATRON TUBES

TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILAMENT			BASING	MAX. DIMENSIONS		MAX. PEAK INVERSE ANODE VOLTS	PEAK STARTER-ANODE BREAKDOWN VOLTS	MAX. PEAK CATHODE CURRENT	MAX. AVERAGE CATHODE CURRENT	TYPE
			Volts	Amps	Type		Height	Diam.					
<b>0A4G</b>	Gas Triode	Relay Service			Cold	8CT	4 1/8	1 9/16	225	+75 to +90	100 ma.	25 ma.	<b>0A4G</b>
<b>2C33/RX233A</b>	Gas Triode	Trigger Service	2.5	2.5	Fil.	8A	4 9/16	1 17/64	1500		1.5 amp.	25 ma.	<b>2C33/RX233A</b>
<b>4C35</b>	Gas Triode	Pulsing or Switching Service	6.3	6.1	Fil.		7	2 3/16	2500		90 amp.	100 ma.	<b>4C35</b>
<b>RK61</b>	Gas Triode	Model Aircraft Control	1.4	0.05	Fil.	4E	1 13/16	0.55	Special Circuit—Write for Data				<b>RK61</b>
<b>RX884</b>	Gas Triode	Sweep Oscillator	6.3	0.6	Htr.	8H	4 1/8	1 9/16	350		300 ma.	75 ma.	<b>RX884</b>
<b>RX885</b>	Gas Triode	Sweep Oscillator	2.5	1.5	Htr.	8F	4 3/16	1 9/16	350		300 ma.	75 ma.	<b>RX885</b>
<b>CK1089</b>	Gas Tetrode	Relay or Indicator Service			Cold	4F	2	3/4		75	20 ma.	15 ma.	<b>CK1089</b>
<b>2050</b>	Gas Tetrode	Relay Service	6.3	0.6	Htr.	8J	4 1/8	1 9/16	1300		1 amp.	100 ma.	<b>2050</b>
<b>2051</b>	Gas Tetrode	Relay Service	6.3	0.6	Htr.	8J	4 1/8	1 9/16	700		375 ma.	75 ma.	<b>2051</b>

See page 3 for reference notes — See pages 18 and 19 for basing diagrams and terminal connections. This data is compiled as a Raytheon service to the Field, it is not intended to indicate type availability.



# SPECIAL PURPOSE TUBES



TYPE	CONSTRUCTION	TYPICAL APPLICATION	HTR or FILAMENT			BAS-ING	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	OUT-PUT watts	LOAD RESIST. ohms	TYPE			
			Volts	Amps.	Type		Height	Diam.															
<b>1AE4</b>	Pentode	R-F Amplifier	1.25	0.1	Fil	8YA	2 1/8	3/4	90	0	90		3.5	1.2		0.5				<b>1AE4</b>			
<b>2C50</b>	Dble. Triode	Power Amplifier	12.6	0.3	Htr	8BD	3 3/16	1 5/16	300	-24			12.5		9.5		1750	(Each Unit)		<b>2C50</b>			
<b>2C52</b>	Dble. Triode	Voltage Amp.	12.6	0.3	Htr	8BD	3 3/16	1 5/16	250	-2			1.3		90		1900	(Each Unit)		<b>2C52</b>			
<b>3A4</b>	Pentode	RF-AF Pwr. Amp.	2.8 1.4	0.4 0.2	Fil	7BX	2 1/8	3/4	150	-8.4	90		13.3	2.2		0.1	1900	0.7	8000	<b>3A4</b>			
<b>3A5</b>	Dble. Triode	AF-RF Amp. Osc.	2.8 1.4	0.11 0.22	Fil	7BW	2 1/8	3/4	90	-2.5			3.7		15		1800			<b>3A5</b>			
<b>3B4</b>	Beam Pentode	RF Amp. Osc.	2.5	0.16	Fil	7BU	2 1/8	3/4	150	-38	135		25	6.2	(Ic1=55 ma)			1.25 (at 100 Mc)		<b>3B4</b>			
<b>6AJ5</b>	Pentode	RF-AF Amplifier	6.3	0.175	Htr	7BD	1 3/4	3/4	28	Rk200	28		3	1.2		0.090	2750			<b>6AJ5</b>			
<b>6AN5</b>	Pentode	RF-AF Pwr. Amp.	6.3	0.45	Htr	7BD	2 1/8	3/4	120	Rk120	120		35	12		0.0125	8000	1.3	2500	<b>6AN5</b>			
<b>6AR6</b>	Pentode	Power Amp.	6.3	1.2	Htr	9Y	3 15/32	1 7/16	250	-22.5	250		75	5.0		0.021	5400			<b>6AR6</b>			
<b>6AS6</b>	Pentode	Mixer-Gated Amp.	6.3	0.175	Htr	9P	1 3/4	3/4	120	-2	120	0	5.2	3.5			3200			<b>6AS6</b>			
<b>6AS7G</b>	Dble. Triode	DC Amplifier	6.3	2.5	Htr	8BD	5 5/16	2 1/16	135	Rk250			125		2.1		7500			<b>6AS7G</b>			
<b>6J4</b>	Triode	UHF Amplifier	6.3	0.4	Htr	7BT	2 1/4	3/4	100	Rk100			10		55		11000			<b>6J4</b>			
<b>6N4</b>	Triode	HF Oscillator	6.3	0.2	Htr	7CA	1 3/4	3/4	180	-3.5			12		32		6000			<b>6N4</b>			
<b>7AK7</b>	Pentode	Mixer-Gated Amp.	6.3	0.8	Htr	8V	3 3/32	1 5/16	150	0	90	0	40	21		0.0115	6500			<b>7AK7</b>			
<b>CK108</b>	Pentode	R-F Amplifier	6.3	0.3	Htr	8G	4 17/32	1 9/16	250	-3	100		2.3	0.5		1.5	1250			<b>CK108</b>			
<b>CK118</b>	Thermal Relay	Overload Protect.				8S	2 1/8	1.275	Operating volt. = 6.9 ± 0.2v; Release volt = 2.0 to 3.5 volts. Write for data														<b>CK118</b>
<b>310A</b>	Pentode	RF-AF Amplifier	10.0	0.315	Htr	7K	4 9/32	1 9/16	135	-3	135		5.5			0.75	1800			<b>310A</b>			
<b>954</b>	Pentode	UHF Amplifier	6.3	0.15	Htr	8B	1 7/8	1 5/32	250	-3	100		2	0.7		> 1	1400			<b>954</b>			
<b>955</b>	Triode	UHF Oscillator	6.3	0.15	Htr	8D	1 3/8	1 5/32	250	-7			6.3		25		2200			<b>955</b>			
<b>956</b>	Pentode	UHF Amplifier	6.3	0.15	Htr	8B	1 7/8	1 5/32	250	-3	100		6.7	2.7		0.7	1800			<b>956</b>			
<b>957</b>	Triode	UHF Oscillator	1.25	0.05	Fil	8C	1 3/4	1 5/32	135	-5			2		13.5		650			<b>957</b>			
<b>CK1030</b>	Spark Gap	Overvolt. Protect.				None	1 5/16	5/8	Breakdown Voltage = 1500 to 2000 volts; Min. External Imped. = 5000 ohms.														<b>CK1030</b>
<b>CK1031</b>	Spark Gap	Overvolt. Protect.				None	1 5/16	5/8	Breakdown Voltage = 3000 to 3500 volts; Min. External Imped. = 10,000 ohms.														<b>CK1031</b>
<b>CK1033</b>	Spark Gap	Overvolt. Protect.				None	1 5/16	5/8	Breakdown Voltage = 4200 to 4600 volts; Min. External Imped. = 10,000 ohms.														<b>CK1033</b>
<b>CK5608</b>	Dble. Triode	Control Equip.	2.5	2	Htr	7J	4 11/16	1 13/16	300	-6			6		32		2450			<b>CK5608</b>			
<b>CK5608A</b>	Dble. Triode	Control Equip.	2.5	2	Htr	8EG	4 11/16	1 13/16	Same characteristics as CK5608. Heaters are connected in series internally														<b>CK5608A</b>
<b>CK5656</b>	Dble. Tetrode	R-F Power Amp.	6.3	0.4	Htr	9K	2 3/16	7/8	150	-2	120		15	2.7		0.06	5800	(Each Unit)		<b>CK5656</b>			
<b>CK5694</b>	Dble. Triode	Power Amplifier	6.3	0.8	Htr	8CS	4 7/8	1 13/16	294	-6			7		35		3200	(Each Unit)		<b>CK5694</b>			
<b>CK5910</b>	Pentode	Radiosonde	1.4	0.05	Fil	8YA	2 1/8	3/4	90	0	90		1.6	0.45		1.5	900			<b>CK5910</b>			
<b>9001</b>	Pentode	UHF Amplifier	6.3	0.15	Htr	7BD	1 13/16	3/4	250	-3	100		2	0.7		> 1	1400			<b>9001</b>			
<b>9002</b>	Triode	UHF Oscillator	6.3	0.15	Htr	7BS	1 13/16	3/4	250	-7			6.3		25		2200			<b>9002</b>			
<b>9003</b>	Pentode	UHF Amplifier	6.3	0.15	Htr	7BD	1 13/16	3/4	250	-3	100		6.7	2.7		0.7	1800			<b>9003</b>			
<b>9005</b>	Diode	Detector	3.6	0.165	Htr	8DA	1 3/8	5/8	Max. Plate Voltage (RMS) = 117v; Max. Io = 1.0 ma.														<b>9005</b>
<b>9006</b>	Dble. Diode	Detector	6.3	0.15	Htr	7BV	1 13/16	3/4	Max. Peak Inverse = 750 v; Max. Io = 5 ma.														<b>9006</b>



# TRANSMITTING TUBES



TYPE	CONSTRUCTION	TYPICAL APPLICATION	FILAMENT			MAXIMUM VOLTAGES				MAX. CURRENT MA.			POWER—WATTS			CAPACITANCES			BASE	TYPE
			Volts	Amps	Type	Plate	Grid 1	Grid 2	Grid 3	Plate	Grid 1	Grid 2	Dis- sipation	Drive	Output	G-P	Input	Output		
<b>2C34/ RK34</b>	Dual Triode	H-F Oscillator- Amp.	6.3	0.8	Heater	300	-36			80*	20*		10*	1.8*	16*	2.4	3.4	0.5	7-Pin	<b>2C34/ RK34</b>
<b>2E24</b>	Beam Pentode	VHF Oscil.- Amp.	6.0	0.65	Oxide	600	-175	200		85	3.5	12.5	13.5	2.0	16.5	0.11	8.5	6.5	Octal	<b>2E24</b>
<b>2E26</b>	Beam Pentode	VHF Oscil.- Amp.	6.0	0.8	Cathode	600	-175	200		75	3.5	12.5	13.5	0.17	27	0.20	13	7	Octal	<b>2E26</b>
<b>2E30</b>	Beam Pentode	RF-AF Amplifier	6.0	0.65	Fil.	250	-150	250	0	60	3		10	0.2	7.5	0.18	9.6	14	7-Pin Min.	<b>2E30</b>
<b>RK4D22</b>	Beam Tetrode	R-F Oscillator- Amp.	25.2 12.6	0.8 1.6	Cathode	750	-200	350		300	15	35	50	1.5	135	0.27	28.0	13.0	Spec. 7-Pin	<b>RK4D22</b>
<b>RK4D32</b>	Beam Tetrode	R-F Oscillator- Amp.	6.3	3.75	Cathode	750	-200	350		300	15	35	50	1.5	135	0.27	28.0	13.0	Spec. 7-Pin	<b>RK4D32</b>
<b>5D23/ RK65</b>	R-F Tetrode	R-F Amplifier	5.0	14.0	Thoriated	3000	-250	500		250	40	80	215	15.0	565	0.42	10.0	5.0	Jmb. 4-Pin	<b>5D23/ RK65</b>
<b>RK6D21</b>	Tetrode	Pulse Amp.	8.2	20	Thoriated	40Kv		2500					400						Giant 5-Pin	<b>RK6D21</b>
<b>RK6D22</b>	Tetrode	R-F, A-F Amp.	5.0	28.5	Thoriated	3500	-250	500		500	100	165	450	22.0	1000	0.5	22.0	10.0	Jmb. 4-Pin	<b>RK6D22</b>
<b>RK25</b>	R-F Pentode	Suppressor Mod.	6.3	0.9	Heater	500	-90	200	+45	55	8	38	10	0.5	22	0.2	10.0	10.0	7-Pin	<b>RK25</b>
<b>RK38</b>	Triode	R-F, A-F Amp.	5.0	8.0	Thoriated	3000	-200			165	40		100	10.0	225	4.3	4.6	0.9	Med. 5-Pin	<b>RK38</b>
<b>RK59</b>	Dual Triode	Quick Heat'g	6.3	1.0	Oxide	500	-60			90*	14*		15*	1.3*	32*	9.0	5.0	1.0	4-Pin	<b>RK59</b>
<b>RK75</b>	Pentode	R-F Oscil.- Amp.	5.5	1.0	Oxide	500	-100	250		60	7	25	15		15	0.55	15	12	Med. 5-Pin	<b>RK75</b>
<b>RK715C</b>	Tetrode	Pulse Modulator	27.0	2.15	Cathode	18000	-1000	1350		15 amp.			60			1.1	38	7	Spec. 4-Pin	<b>RK715C</b>
<b>RK807</b>	Beam Tetrode	R-F Oscil.- Amp.	6.3	0.9	Heater	600	-200	300		100	5	12	30	0.2	50	0.2	11.0	7.0	Med. 5-Pin	<b>RK807</b>
<b>RK811A</b>	Triode	RF-AF Amplifier	6.3	4	Fil.	1500	-200			175	50		65	7.1	200	5.6	5.9	0.7	4-Pin	<b>RK811A</b>
<b>RK812A</b>	Triode	RF-AF Amplifier	6.3	4	Fil.	1500	-200			175	35		65	6.5	190	5.5	5.4	0.77	4-Pin	<b>RK812A</b>
<b>RK813</b>	Beam Tetrode	R-F Oscil.- Amp.	10.0	5	Thoriated	2250	-300	400		225	30	55	125	4.0	375	0.25	16.3	14	Giant 7-Pin	<b>RK813</b>
<b>RK814</b>	Beam Tetrode	R-F Oscil.- Amp.	10.0	3.25	Thoriated	1250	-300	300		150	15	34	65	1.5	130	0.12	13.0	10.0	Med. 5-Pin	<b>RK814</b>
<b>RK829B</b>	Dual Beam Tet.	R-F Oscil.- Amp.	12.6	1.125	Cathode	750	-175	225		240*	15*	30*	40*	0.8*	87*	0.12	14.5	7.0	Med. 7-Pin	<b>RK829B</b>
<b>RK832A</b>	Dual Beam Tet.	R-F Oscil.- Amp.	6.3	0.8	Cathode	750	-100	250		90	6	20	15	0.19	26	0.05	7.5	3.8	Spec. 7-Pin	<b>RK832A</b>
<b>RK837</b>	R-F Pentode	R-F Oscil.- Amp.	12.6	0.7	Heater	500	-200	200	+40	80	8	40	12	0.4	22	0.2	16.0	10.0	Med. 7-Pin	<b>RK837</b>
<b>RK1625</b>	Beam Tetrode	R-F Oscil.- Amp.	12.6	0.45	Cathode	600	-200	300		100	5	12	30	0.2	40	0.2	11	7	Med. 7-Pin	<b>RK1625</b>
<b>CK5763</b>	Beam Pentode	R-F Oscil.- Amp.	6.0	0.75	Heater	300	-125	250	0	50	5	15	12	0.35	8	0.3	9.5	4.5	9-Pin Min.	<b>CK5763</b>
<b>RK6146</b>	Beam Pentode	RF-AF Amp.	6.3	1.25	Heater	750	-150	250		150	4		25	0.3	69	0.22	13.5	9	Octal	<b>RK6146</b>

See page 3 for reference notes — See pages 18 and 19 for basing diagrams and terminal connections.  
 This data is compiled as a Raytheon service to the Field, it is not intended to indicate type availability.  
 \*Indicates value for both sections combined.





# REFLEX KLYSTRONS



TYPE	MAXIMUM FREQUENCY RANGE MEGACYCLES	FREQUENCY MEGACYCLES	TYPE OF TUNING	TYPICAL OPERATION				FOCUS or CONTROL POTENTIAL D.C. Volts	ELECTRONIC TUNING E.REF. / P.O. / 2 Megacycles	MAXIMUM THERMAL DRIFT Mc/c°	FILAMENT CURRENT AT 6.3 V. AMPERES	TYPE OF CAVITY	TYPE
				POWER OUTPUT MILLIWATTS		REFLECTOR POTENTIAL D.C. Volts	BEAM VOLT. D.C. Volts						
				Ave.	Min.								
2K22	4240-4910	4775	Mech.-Cap.	115	75	-120 to -180	300		30 min.	-0.1 to +0.5	0.440	Self Cont.	2K22
2K25	8500-9660	9370	Mech.-Cap.	32	20	-128 to -123	300		55 ave.	0 to -0.2	0.440	Self Cont.	2K25
2K26	6250-7060	6660	Mech.-Cap.	100	80	-70 to -115	300		32 min.	0 to -0.2	0.440	Self Cont.	2K26
2K28	1200-3750	3315-3680	Mech.-Ind.	140	80	-140 to -300	300	300	20 min.	±.15	0.650	External	2K28
2K29	3400-3960	3560	Mech.-Cap.	106	85	-75 to -180	300		28 min.	-0.1 to +.05	0.440	Self-Cont.	2K29
2K33	22,000-25,000	22,000-25,000	Mech.-Cap.	40	10	-80 to -220	1800	-20 to -100	40 ave.	0 to -1.0	0.650	Self. Cont.	2K33
2K45	8500-9660	9660	Therm.-Cap.	32	20	-95 to -145	300		70 ave.		0.762	Self Cont.	2K45
2K48	4000-11,000	6900-10,850	Mech.-Ind.		25	-175 to -300	1250				0.515	External	2K48
2K56	3840-4460	4150	Mech.-Cap.	100	80	-85 to -150	300		30 min.	-0.1 to +.05	0.440	Self Cont.	2K56
6BL6	1600-5500	2110-4355	Mech.-Ind.	50	25	-30 to -330	300	0			0.675	External	6BL6
QK140		29,700-33,520	Mech.-Cap.	20	10	-50 to -200	2250	-20 to -250	45 ave.		0.650	Self Cont.	QK140
QK226		37,100-42,600	Mech.-Cap.	5		-50 to -200	2500	-20 to -200			0.650	Self Cont.	QK226
QK227		41,700-50,000	Mech.-Cap.	5		-50 to -200	3000	-20 to -200			0.650	Self Cont.	QK227
QK289		27,270-30,000	Mech.-Cap.	20	10	-50 to -200	2250	-20 to -250	45 ave.		0.650	Self Cont.	QK289
QK290		29,700-33,520	Mech.-Cap.	20	10	-50 to -200	2250	-20 to -250	45 ave.		0.650	Self Cont.	QK290
QK291		33,520-36,250	Mech.-Cap.	18	5	-50 to -200	2250	-20 to -250	45 ave.		0.650	Self Cont.	QK291
QK292		35,100-39,700	Mech.-Cap.	10	5	-50 to -200	2500	-20 to -200	45 ave.		0.650	Self Cont.	QK292
QK293		37,100-42,600	Mech.-Cap.	5		-50 to -200	2500	-20 to -200			0.650	Self Cont.	QK293
QK294		41,700-50,000	Mech.-Cap.	5		-50 to -200	3000	-20 to -200			0.650	Self Cont.	QK294
QK295	Two tubes necessary to cover 50,000 to 60,000 Mc.		Mech. Cap.	To be specified		-50 to -200	3500	-20 to -200			0.650	Self Cont.	QK295
QK306	18,000-22,000	18,000-22,000	Mech.-Cap.	40	10	-80 to -220	1800	-20 to -100	40 ave.	0 to -1.0	0.650	Self Cont.	QK306
RK726C	2700-2960	2800	Mech.-Cap.	100	85	-75 to -135	300		25 min.	-0.1 to +.05	0.440	Self Cont.	RK726C
RK5721	3500-12,000	4290-8340	Mech.-Ind.	125	100	-60 to -625	1000	+4 to +18	12 min.	±.025	0.580	External	RK5721
RK5976	6250-7460	6750	Mech.-Cap.	110	85	-78 to -158	300		32 min.	0 to -0.2	0.440	Self Cont.	RK5976
RK5981	1245-1460	1245-1460	Mech.-Cap.	100	40	-30 to -330	225		2.5 min.	±0.05	0.455	Self Cont.	RK5981
RK6043	2950-3275	3200	Mech.-Ind.	175	150	-100 to -175	300	300	20	±0.15	0.650	Self Cont.	RK6043
RK6115	5100-5900	5500	Mech.-Cap.	100	70	-115 to -175	300		30 min.	-0.1 to +.05	0.440	Self Cont.	RK6115

## TR TUBES

TYPE	DESCRIPTION	CAVITY	FREQUENCY RANGE Megacycles	IGNITOR CURRENT $\mu$ dc	MAX. PEAK DISSIPATION Watts	MAX. AVE. DISSIPATION Watts	RECOVERY TIME	TYPE
721B	Tunable	External	2800-3330	60-110	100	1	7 $\mu$ sec. max.	721B



# CAVITY MAGNETRON TUBES



TYPE	HEATER		CLASS	BAND or RANGE Mc.	Anode Kv	MAXIMUM RATINGS		Input Watts	Anode Kv	Anode Amps	TYPICAL OPERATION		P.P.S.	Pk.P.O. Kw	TYPE
	Volts	Amps				Anode Amps	Duty Cycle				Field Gauss	Pulse µsec			
RK2J23	6.3	1.5	Fixed Frequency—Pulsed	3071—3100	22.0	30.0	.002	600	20.0	30.0	2400	1.0	1000	275	RK2J23
RK2J24	6.3	1.5	Fixed Frequency—Pulsed	3047—3071	22.0	30.0	.002	600	20.0	30.0	2400	1.0	1000	275	RK2J24
RK2J25	6.3	1.5	Fixed Frequency—Pulsed	3019—3047	22.0	30.0	.002	600	20.0	30.0	2400	1.0	1000	275	RK2J25
RK2J26	6.3	1.5	Fixed Frequency—Pulsed	2992—3019	22.0	30.0	.002	600	20.0	30.0	2400	1.0	1000	275	RK2J26
RK2J27	6.3	1.5	Fixed Frequency—Pulsed	2965—2992	22.0	30.0	.012	600	20.0	30.0	2400	1.0	1000	275	RK2J27
RK2J28	6.3	1.5	Fixed Frequency—Pulsed	2939—2965	22.0	30.0	.002	600	20.0	30.0	2400	1.0	1000	275	RK2J28
RK2J29	6.3	1.5	Fixed Frequency—Pulsed	2914—2939	22.0	30.0	.002	600	20.0	30.0	2400	1.0	1000	275	RK2J29
RK2J30	6.3	1.5	Fixed Frequency—Pulsed	2860—2900	22.0	30.0	.002	600	20.0	30.0	1900	1.0	1000	285	RK2J30
RK2J31	6.3	1.5	Fixed Frequency—Pulsed	2820—2860	22.0	30.0	.002	600	20.0	30.0	1900	1.0	1000	285	RK2J31
RK2J32	6.3	1.5	Fixed Frequency—Pulsed	2780—2820	22.0	30.0	.002	600	20.0	30.0	1900	1.0	1000	285	RK2J32
RK2J33	6.3	1.5	Fixed Frequency—Pulsed	2740—2780	22.0	30.0	.002	600	20.0	30.0	1900	1.0	1000	285	RK2J33
RK2J34	6.3	1.5	Fixed Frequency—Pulsed	2700—2740	22.0	30.0	.002	600	20.0	30.0	1900	1.0	1000	285	RK2J34
RK2J42	6.3	0.48	Fixed Frequency—Pulsed	9345—9405	6	5.5	.0025	82.5	5.5	4.5	Pkg.	1	2000	7	RK2J42
RK2J51	6.3	1.1	Tunable—Pulsed	8500—9600	16	16	.0012	230	15	14	Pkg.	1	1000	45	RK2J51
RK2J55	6.3	1.0	Fixed Frequency—Pulsed	9345—9405	16.0	16.0	.001	180	12.8	12.0	Pkg.	1.0	1000	50.0	RK2J55
RK2J56	6.3	1.0	Fixed Frequency—Pulsed	9215—9275	16.0	16.0	.001	180	12.8	12.0	Pkg.	1.0	1000	50.0	RK2J56
RK2J61A	6.3	1.5	Tunable—Pulsed	3000—3100	15.0	15.0	.002	250	10.7	12.5	1300	1.0	2000	35.0	RK2J61A
RK2J62A	6.3	1.5	Tunable—Pulsed	2914—3010	15.0	15.0	.002	250	10.2	12.5	1300	1.0	2000	35.0	RK2J62A
RK2J66	6.3	1.5	Tunable—Pulsed	2845—2905	20.0	25.0	.001	400	18.0	25.0	1700	1.0	1000	150	RK2J66
RK2J67	6.3	1.5	Tunable—Pulsed	2795—2855	20.0	25.0	.001	400	18.0	25.0	1700	1.0	1000	150	RK2J67
RK2J68	6.3	1.5	Tunable—Pulsed	2745—2805	20.0	25.0	.001	400	18.0	25.0	1700	1.0	1000	150	RK2J68
RK2J69	6.3	1.5	Tunable—Pulsed	2695—2755	20.0	25.0	.001	400	18.0	25.0	1700	1.0	1000	150	RK2J69
RK2J70	6.3	1.25	Fixed Frequency—Pulsed	3030—3110	7.5	15.0	.002	200	7.0	8.0	Pkg.	0.5	1000	20	RK2J70
RK2J71	6.3	1.25	Fixed Frequency—Pulsed	3190—3201	5.5	8.0	.002	100	5.0	5.0	Pkg.	1.0	2000	6	RK2J71
RK4J31	16.0	3.1	Fixed Frequency—Pulsed	2860—2900	30.0	70.0	.001	1200	28.0	70.0	2700	1.0	400	900	RK4J31
RK4J32	16.0	3.1	Fixed Frequency—Pulsed	2820—2860	30.0	70.0	.001	1200	28.0	70.0	2700	1.0	400	900	RK4J32
RK4J3	16.0	3.1	Fixed Frequency—Pulsed	2780—2820	30.0	70.0	.001	1200	28.0	70.0	2700	1.0	400	900	RK4J33
RK4J34	16.0	3.1	Fixed Frequency—Pulsed	2740—2780	30.0	70.0	.001	1200	28.0	70.0	2700	1.0	400	900	RK4J34
RK4J35	16.0	3.1	Fixed Frequency—Pulsed	2700—2740	30.0	70.0	.001	1200	28.0	70.0	2700	1.0	400	900	RK4J35
RK4J36	16.0	3.1	Fixed Frequency—Pulsed	3650—3700	30.0	70.0	.001	1200	28.0	70.0	2500	1.0	400	750	RK4J36
RK4J37	16.0	3.1	Fixed Frequency—Pulsed	3600—3650	30.0	70.0	.001	1200	28.0	70.0	2500	1.0	400	750	RK4J37
RK4J38	16.0	3.1	Fixed Frequency—Pulsed	3550—3600	30.0	70.0	.001	1200	28.0	70.0	2500	1.0	400	750	RK4J38
RK4J39	16.0	3.1	Fixed Frequency—Pulsed	3500—3550	30.0	70.0	.001	1200	28.0	70.0	2500	1.0	400	750	RK4J39
RK4J40	16.0	3.1	Fixed Frequency—Pulsed	3450—3500	30.0	70.0	.001	1200	28.0	70.0	2500	1.0	400	750	RK4J40
RK4J41	16.0	3.1	Fixed Frequency—Pulsed	3400—3450	30.0	70.0	.001	1200	28.0	70.0	2500	1.0	400	750	RK4J41
RK4J43	16.0	3.1	Fixed Frequency—Pulsed	2992—3019	30.0	70.0	.001	1200	28.0	70.0	2700	1.0	400	900	RK4J43
RK4J44	16.0	3.1	Fixed Frequency—Pulsed	2965—2992	30.0	70.0	.001	1200	28.0	70.0	2700	1.0	400	900	RK4J44
RK4J54	12.6	3.75	Fixed Frequency—Pulsed	6875—6775	25.0	35.0	.001	650	17.5	30.0	Pkg.	1.0	1000	200	RK4J54
RK4J55	12.6	3.75	Fixed Frequency—Pulsed	6775—6675	25.0	35.0	.001	650	17.5	30.0	Pkg.	1.0	1000	200	RK4J55
RK4J56	12.6	3.75	Fixed Frequency—Pulsed	6675—6575	25.0	35.0	.001	650	17.5	30.0	Pkg.	1.0	1000	200	RK4J56

See page 3 for reference notes — See pages 18 and 19 for basing diagrams and terminal connections.  
This data is compiled as a Raytheon service to the Field, it is not intended to indicate type availability.



## CAVITY MAGNETRON TUBES

TYPE	HEATER		CLASS	BAND or RANGE Mc.	Anode Kv	MAXIMUM RATINGS		Input Watts	Anode Kv	Anode Amps.	TYPICAL OPERATION		P.P.S.	Pk.P.O. Kw	TYPE
	Volts	Amps				Anode Amps	Duty Cycle				Field Gauss	Pulse μsec			
<b>RK4J57</b>	12.6	3.75	Fixed Frequency—Pulsed	6575-6475	25.0	35.0	.001	650	17.5	30.0	Pkg.	1.0	1000	200	<b>RK4J57</b>
<b>RK4J58</b>	12.6	3.75	Fixed Frequency—Pulsed	6475-6375	25.0	35.0	.001	650	17.5	30.0	Pkg.	1.0	1000	200	<b>RK4J58</b>
<b>RK4J59</b>	12.6	3.75	Fixed Frequency—Pulsed	6375-6275	25.0	35.0	.001	650	17.5	30.0	Pkg.	1.0	1000	200	<b>RK4J59</b>
<b>RK5J26</b>	23.5	2.2	Tunable—Pulsed	1220-1350	31.0	60.0	.002	1800	27.5	46	1400	4	225	400	<b>RK5J26</b>
<b>QK174C</b>	4.0	3.1	Tunable—CW-FM	1990-2110	2.2	0.18	—	198	1.85	0.15	Pkg.	—	—	0.07	<b>QK174C</b>
<b>QK312</b>	8.5	32	Fixed Freq.—CW	2425-2475	7.0	2.5	CW	3600	5.1	0.58	Pkg.	CW	CW	1.5	<b>QK312</b>
<b>RK730A</b>	6.3	1.1	Fixed Frequency—Pulsed	9345-9405	16	16	.001	180	13	12	5400	1	1000	40	<b>RK730A</b>
<b>RK5586</b>	16.0	3.1	Tunable—Pulsed	2700-2900	30.0	70.0	.001	1200	28.0	70.0	2700	1	400	900	<b>RK5586</b>
<b>RK5609</b>	6.3	3.8	Fixed Freq.—CW	2425-2475	1.7	0.15	CW	200	1.5	0.125	Pkg.			0.125	<b>RK5609</b>
<b>RK5657</b>	16	3.4	Tunable—Pulsed	2900-3100	32.5	70	.001	1300	32.5	70	2700	1	500	800	<b>RK5657</b>
<b>RK5982</b>	6.3	3.2	Fixed Frequency—Pulsed	9335-9415	15.5	14.5	.001	225	15.5	13.4	Pkg.	4.5	200	75.5	<b>RK5982</b>





Subminiature types viewed with Red Dot on right hand side; other types viewed from bottom of base.

