





Designed to Meet Military Specifications and Critical Commercial Applications

								Spe	cial	Tes	ts a	nd C	ont	rols		
RCA	Proto-			es Between d Prototype					rain			ves	itude	20	Life	Elevated Bulb Temp.
Туре	type	Name	Rating or Characteristic	Premium Type	Proto- Type	Shock	Fatigue	Vibration	Glass Strain	Aging	Stability	Inoperatives	High-Altitude	Heater-Cycling	Room Tomp,	Elevated
OA2-WA	0A2	Voltage Regulator*	This type is des	igned to m	eet the	V		,	v'	V	-	V	v			
OB2-WA	0B2	Voltage Regulator*	This type is des	igned to m	eet the	V	V	v'	V	V	-	V	V	-		,
2D21-W	2D21	Thyratron Tetrode*	This type is des indicated milita	igned to m	eet the	v'	v	V	-	V	-	_	_	_		-
6AC7-W	6AC7	Sharp-Cutoff Pentode∳	This type is desindicated milita	igned to m	eet the	V	V	V		V	-	_		-		-
6J4-WA	6J4	High-Mu Triode*	This type is des			V	V	V	V	V	V	V	V	V	V	-
12AT7-WA	12AT7	High-Mu Twin Triode§	This type is desindicated milita			V	V	V	V	V	V	V	-	x'	\	-
5636		Sharp-Cutoff Pentode®	Heater-Cathod amplifier circuits to 400 Mc. amplifier circuit	ts, delay o at frequen d gain-cor	circuits, ici e s up	V	V	V	V	V	V	V	1	\	V	
5636-A	5636	Sharp-Cutoff Pentode®	This type is de- indicated milit			~	V.	V	V	V	V	V	V	V	V	-
5654	6AK5	Sharp-Cutoff Pentode*	None For use as an r high-frequency circuits of cor ceivers.	broad-ba	nd cir-	,	V	V	V	V	V	N	V	V		,
5654/ 6AK5-W	6AK5	Sharp-Cutoff Pentode*	This type is de- indicated milit			V.	V	V	V	~	V	V	V	V		
5654/ 6AK5-W/ 6096	6AK5	Sharp-Cutoff Pentode*	This type is de indicated milit	signed to n ary specific	neet the cation.	V	V	\	V	~	V	V	V	V	-	
5670	2C51	Medium-Mu Twin Triode§	Heater Current, A	inp. 0.35	0.3	V	~	V	V	V	V	V	V	V	-	
5670-WA	2C51	Medium-Mu Twin Triode§	This type is de indicated milit	signed to n ary specifi	neet the	V	V	V	v	1	V	V		V	-	
5686	_	Beam Power Tube §	Heater-Cathod A af power an class C rf power up to 160 Mc.	e Type. F nplifier ser er amplifier	or class vice, or service	V.	,	V	1	1	1	1	-	V.	1	
57 18	_	Medium-Mu Triode®	Heater-Cathod plifier and oscill output at 500 watt.	ator. Usefu	al power	1:	V	V	V	V	V	V	V	/		
5718-A	5718	Medium-Mu Triode®	This type is de indicated milit	signed to r ary specifi	neet the cation.	V	V	V	V	V	V	V	V	\		
5719		High-Mu Triode•	Heater-Cathod an audio amp ceivers.	le Type. U lifier in mo	seful as obile re-	V	V	~	V	v	· V	V	V	V	_	-
5719-A	5719	High-Mu Triode®	This type is de			-	V	V	V	V	· V	V	V	· V	_	-

For key to terminal connections see page 22.

* 7-pin miniature type.

\$ 9-pin miniature type.

* Subminiature type with flexible leads.











PREMIUM TUBES

Designed to Meet Military Specifications and Critical Commercial Applications

Ca	thode	Dime	imum nsions	Use Values to right give operating conditions and characteristics	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resistance	Transcon- ductance	Amplifi- cation Factor	Load for Stated Power	Power Output	Туре
Volts	Amps.	Length	Diam.	for indicated use.	Voits	Volts	Volts	Ma.	Ma.	Ohms	Micro- mhos		Ohms	Watts	
	old hode	25/8	34	Voltage Regulator			For d	lata refe	r to MI	L-E-1/29	0A speci	fication	A		OA2-WA
	old :hode	25/8	3,4	Voltage Regulator			For	data ref	er to M	IL-E-1/29	91 specifi	ication •	•		OB2-WA
6.3	0.6	21/8	3/4	High-Sensitivity Control Service		100mm or other	For	data ref	er to M	IL-E-1/75	56 specifi	ication 			2D21-W
6.3	0.45	25/8	-	Class A ₁ Amplifier			For	data refe	er to M	IL-E-1/35	54 specifi	cation*			6AC7-W
6.3	0.4	218	3 4	Class A ₁ Amplifier in UHF applications			For d	ata refe	r to MI	L-E-1/61	9B speci	fication	A		6J4-WA
6.3 12.6	$\begin{array}{c} 0.3 \\ \hline 0.15 \end{array}$	2 ³ 16	7 %	Class A ₁ Amplifier			For	data ref	er to M	IL-E-1/3.	A specifi	cation ^			12AT7-WA
6.3	0.15	138	0.383	Class A ₁ Amplifier	100	Cath. Res., 150 Ohms	100	4 5.8	5.6 4	110000 50000	3200 1950		o. 3 Volts		5636
6.3	0.15	13/8	0.383	Class A ₁ Amplifier			For d	ata refe	to MI	L-E-1/71	5A specif	ication	<u> </u>		5636-A
6.3	0.175	134	34	Class A ₁ Amplifier	180	Cath. Bias	120	7.7	2.4	500000	5100	Cath.	Res., 180	Ohms	5654
6.3	0.175	134	3.4	Class A ₁ Amplifier			For	data re	fer to M	IIL-E-1/4	A specif	ication ⁴			5654/ 6AK5-W
6.3	0.175	13/4	34	Class A ₁ Amplifier			For o	lata refe	er to MI	IL-E-1/23	6 specifi	cation ^			5654/ 6AK5-W/ 6096
6.3	0.35	13/4	7.8	Class A ₁ Amplifier Each Unit	150		th. as	8.2	_		5500	35	Cath. 240 O	Res., hms	5670
6.3	0.35	13/4	7/8	Class A ₁ Amplifier Each Unit			For	data re	fer to M	IIL-E-1/	247 speci	fication	A		5670-WA
6.3	0.35	23/6	7.8	Class A ₁ Amplifier	250 -	12.5	250	5	27		3100	_	9000	2.7	F404
				Class C RF Amplifier	250	-30	180	6.5	30	Peak RF No. 1 Vol		Grid = -	No. 2 Cur 2 Ma. (ap	rrent prox.)	5686
6.3	0.15	13/8	0.4	Class C Amplifier and Oscillator	М	DC PI	late Vo	ngs, Abs lts, 165 ts, –55]	'alues: DC Plate DC Grid		Pl	ate Dissip 3.3 Wat		5718
6.3	0.15	13/8	0.4	Class C Amplifier and Oscillator			For c	lata refe	r to MI	L-A-1/68	1 specifi	cation*			5718-A
6.3	0.15	13/8	0.4	Class A ₁ Amplifier	150	C	Cath. Bias		1.85	30500	2300	70	Cath. 680 C	Res.,	5719
6.3	0.15	13/8	0.4	Class A ₁ Amplifier			For d	ata refe	r to MI	L-A-1/68	2 specifie	ration •		-	5719-A

A copy of this specification may be obtained from the Director of the Armed Forces Electro-Standards Agency (ASESA) at Fort Monmouth, New Jersey. Excluding flexible leads.





PREMIUM TUBES - Cont'd

Designed to Meet Military Specifications and Critical Commercial Applications

								Spe	cial	Test	ts ar	nd C	ont	rols		
RG	Proto-	No.	Differences Type and						train		,	fives	lütude	Heater-Cycling	Life dua.	Temo.
Туре	type	Name	Rating or Characteristic	Premium Type	Proto- Type	Shock	Fatigue	Vibration	Glass Strain	Aging	Stability	Inoperatives	Migh-Altitude	Heater	Room Temp.	Elevated Bulb
5725	6AS6	Sharp-Cutoff Pentode*	Bulb Temperature, Max. °C (at hottest	165	120	√	V	v'	v'	V.	V	V	V	v		,
5726	6AL5	Twin Diode*	Controlled Plate- Current Balance	Yes	No	v'	\'	,	,	V.	V	V	-	V.	\	-
5726/ 6AL5-W	6 AL 5	Twin Diode*	This type is desig indicated military	ned to m	eet the	١	\ \	١.	`	\	١	V		`	`	-
5726/ 6AL5-W/ 6097	6AL5	Twin Diode*	This type is desig indicated military	ned to m	ect the ation.	ν.	`	`	`	`	`	1		V	,	
5727	2D21	Thyratron Tetrode*	Heater-cathode t relay,grid-controll pulse-modulatoral be operated in a circuit directly f phototube.	ed rectif oplication high-sen	ier, and ns. Can sitivity	\	\	,	,	1	`	\'		,		
5727/ 2D21-W	2D21	Thyratron* Tetrode	This type is desig indicated military	ned to m	eet the	V	v'	`	V	V	V	V	-	\	V	1
5749	6 BA 6	Remote-Cutoff Pentode*	Heater-Cathode gain rf or if ampli automatic-gain-c	fier servi	ice, and	V	V	\	V	V	V	V	-	~	V	4
5749/ 6BA6-W	6BA6	Remote-Cutoff Pentode*	This type is desig	ned to m	eet the	V	V	V	V	V	V	V	V	V	N	
5750	6BE6	Pentagrid Converter	Heater-Cathode oscillator (conver	Type. Fo	r mixer- ice.	V	v	V	V	~	V	V		,	-	-
5751	12AX7	High-Mu Twin Triode§	Heater Current Amp. Sect. Amplif, Factor Transcond., µmhos Controlled Plate- Current Balance	0.175 70 1200 Yes	0.15 100 1600 No	V	N.	V		V	V	V		V	-	
5751-WA	12AX7	High-Mu Twin Triode	This type is designindicated militar	ned to n y specifi	neet the	V	V	~	V	~	V	V	-	- \	-	-
5814-A	12AU7	Medium-Mu Twin Triode§	Heater Current Amp. Sect. Peak H-K Volts Controlled Plate- Current Balance	0.175 ± 100 Yes	0.15 ± 200 (V	~	V	~	V	V	V	V		/-	-
5814-WA	12AU7	Medium-Mu Twin Triode	This type is designed indicated militar	gned to n y specifi	neet the cation.	~	V	~	V	V	~	V	/	1	1-	-
5840	_	Sharp-Cutoff Pentode®	Heater-Cathode an rf or if amplifi band circuits of craft equipment to 400 Mc. as an	er tube in mobile Can be	n broad- and air- used up	1	V	_	~		~	v	/- \		-	
5840-A	5840	Sharp-Cutoff Pentode®	This type is designed indicated militar	gned to r	neet the	· V	V	V	/	· v	V	/	/\	1	1-	-

For key to terminal connections see page 22.

* 7-pin miniature type.

* 9-pin miniature type.

* DC component must not exceed +100 volts.









5727 5727/2D21-W



5749 5749/6BA6-W

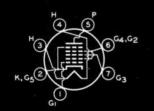
PREMIUM TUBES - Cont'd

Designed to Meet Military Specifications and Critical Commercial Applications

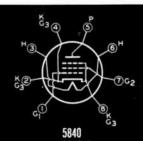
	hode	Maxi Dimen Inci	rsions res	Use Values to right give operating conditions and characteristics	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current		Transcon- ductance Micre-	Amplifi- cation Factor	Load for Stated Power	Power Output	Type
Volts	Amps.	Length	Diam.	for indicated use.	Volts	Volts	Volts	Ma.	Ma.	Ohms	mhos		Ohms	Watts	
6.3	0.175	13/4	3/4	Class A ₁ Amplifier	120	-2	120	3.5	5.2	_	3200		_		5725
6.3	0.3	13/4	3/4	Half-Wave Rectifier	Pe	eak Inv	rerse Pl	, Absolu ate Volt per Plat	s, 360	DC O	ıtput Ma Ieater—(±360	5726
6.3	0.3	13/4	3/4	Half-Wave Rectifier			For	data ref	er to M	IIL-E-1/7	A specifi	cation▲			5726/ 6AL5-W
6.3	0.3	13/4	3/4	Half-Wave Rectifier			For d	lata refe	r to Ml	IL-E-1/23	5A speci	fication	A		5726/ 6AL5-W 6097
6.3	0.6	21/8	3/4	Relay and Grid- Controlled Rectifier Service	Pea		rd Anode	Volts, 65 Volts, 13			hode Amp ode Amp.,		Fault C		5727
				Pulse-Modulator Service	Peak Inverse Anode Volts, 100 Av. Cathode Amp., 0.1										
6.3	0.3	21/8	3/4	Control Service	For data refer to MIL E 1/93 A specification 4										5727/ 2D21-W
6.3	0.3	21/8	3⁄4	Class A ₁ Amplifier	100 250	Cath. Bias	100	4.4	10.8	250000 1000000	4300 4400		Res., 68 Res., 68		5749
6.3	0.3	21/8	3/4	Class A ₁ Amplifier				1	1	IL-E-1B		,			5749/ 6BA6-W
6.3	0.3	23/16	7/8	Converter Service,	100	_	100	7.5	2.6	400000			ts, rms		5750
$\frac{6.3}{12.6}$	0.35 0.175	23/16	7/8	Separate Excitation Class A ₁ Amplifier Each Unit	250 250	-3	100	7.5	2.6	58000	1200	70	ts, rms	_	5751
6.3	0.35 0.175	23/16	7/8	Class A ₁ Amplifier			For	data ref	er to M	IL-E-1/2	37 specifi	ication*			5751-WA
6.3	0.35 0.175	23/16	7/8	Class A ₁ Amplifier Each Unit	250	-8.5		_	10.5	7770	2200		5814-A		
6.3	0.35 0.175	23/16	7/8	Class A ₁ Amplifier	fier For data refer to MIL-E-1/238A specification [▲]										5814-WA
6.3	0.15	13/8	0.4	Class A ₁ Amplifier	100	Cath. Bias	100	2.4	7.5	260000	5000	Cath.	Res., 15	0 ohms	5840
6.3	0.15	13/8	0.4	Class A ₁ Amplifier			For d	ata refe	r to MI	L-E-1/72	0A speci	fication	A		5840-A

A copy of this specification may be obtained from the Director of the Armed Forces Electro-Standards Agency (ASESA) at Fort Monmouth, New Jersey.

© Excluding flexible leads.













Designed to Meet Military Specifications and Critical Commercial Applications

								Spe	cial	Tes	sts a	nd	Cont	trols	5	
RCA	Proto-		Differences Type and I						ain			res	tude		Life	Elevated Bulb Temp.
Туре	type	Name	Rating or Characteristic	Premium Type	Proto- Type	Shock	Fabgue	Vibration	Glass Strain	Aging	Stability	Inoperatives	High-Aftitude	Meater-Cycling	Room Temp.	Elevated
6005	6AQ5	Beam-Power Tube*	Max. Bulb Temperature, °C	225	250		V	V		V	V		_	V		
6021		Medium-Mu Twin Triode•	For general-purpos amplifier applicat has a separate cat	ions. Ea	tor and ch unit	V.	\'	V.	V	V	V	\	,	V	_	
6072	12AY7	Medium-Mu Twin Triode §	Heater Current, Amperes, for Heater Volts = 6.3	0.35	0.3	,	,					,	, '	\		
		Twill triodes	Amperes, for Heater Volts = 12.6	0.175	0.15								Ì			
6073/ 0A2	0A2	Voltage Regulator*	None Like 0A2, but integer-regulator appleas to shock and vi	ications	critical	1	\	1		V			_			-
6074/ OB2	0B2	Voltage Regulator*	None Like 0B2 but into age-regulator appl critical as to shock	cations	critical	V	V	\	-			-	-	-	-	
6080-WA	6AS7-G	Low-Mu Twin Power Triode	This type is design indicated military	ed to m	eet the ation.	V	V.	v	-	V	V	V	V	V	V	-
6101	6]6	Medium-Mu Twin Triode*	Plate Dissip., Watts Plate Res., Ohms Transcon., µmhos Peak H-K Volts	0.85 6300 6000 ± 180	1.5 7000 5000 ± 90	V	,		1	V			V	_	-	,
6101/ 6J6-WA	6J6	Medium-Mu Twin Triode*	This type is design indicated military	ed to m	eet the	V	V	V	1	V	V	V	V	_	_	,
61,11		Medium-Mu Twin Triode®	For general-purp applications. May as a combined oscil tube in vhf applic	also b lator an	e used	V	V	V	V	V	V	V	V	V	_	-
6136	6AU6	Sharp-Cutoff Pentode*	Input Capacitance (µµf) For high-frequence applications.	6.0 y broad	5.5 d-band	V	V	V	V	V	V	V	_	V	V	
6186/ 6AG5-WA	6AG5	Sharp-Cutoff Pentode*	This type is designindicated military	ed to m	eet the ation.	V	V	V	V	V	√	V	V	V		1
6189/ 12AU7-WA	12AU7	Medium-Mu Twin Triode§	This type is design indicated military	ed to m specific	eet the ation.	V	V	V	V	V	V	V	V	V	_	v
6201	12AT7	High-Mu Twin Triode§	None For use as a mixer amplifier at freq 300 Mc.	, oscillat uencies	or and up to	V	V	V	40.40	V	~	V	V	~	_	V
6205	5840	Sharp-Cutoff Pentode	Grid-No. 3 brought out to separate pin	Yes	No	V	V	√	V	~	V	V	~	~	_	V

For key to terminal connections see page 22.

* 7-pin miniature type.

* 9-pin miniature type.

* Subminiature type with flexible leads.

* Large wafer octal 8-pin type with metal sleeve.



PREMIUM TUBES - Cont'd

Designed to Meet Military Specifications and Critical Commercial Applications

Cal	hode		imum nsions hes	Use Values to right give operating conditions and characteristics	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resistance	Transcon- ductance	Amplifi- cation Factor	Load for Stated Power	Power Output	(RCA) Type
Velts	Amps.	Length	Diam.	for indicated use.	Volts	Volts	Velts	Ma.	Ma.	Ohms	Micro- mhos		Ohms	Watts	
6.3	0.45	25/8	3/4	Class A ₁ Amplifier	180	-8.5	180	3	29	58000	3700		5500	2	6005
0.0	0.13	~/8	/4		250	-12.5	250	4.5	45	52000	4100		5500	4.5	0003
6.3	0.3	13/8	0.4	Class A ₁ Amplifier	100	Cath. R	Res., 150	ohms	6.5	6500	5400	35	Grid V Cutofi	olts for -6.5	6021
6.3	0.35 0.175	23/16	7∕8	Class A ₁ Amplifier Each Unit	250	-4	_		3	25000	1750	44		_	6072
	old hode	25/8	3/4	Voltage Regulator	App	rox. DO	Start	-55 to - ing Volt upply V	s, 156	Reg	rox. DC ulation R ulation V	Range, S			6073/ 0A2
	old hode	25/8	3/4	Voltage Regulator	Ambient Temp., -55 to +90° C Approx. DC Starting Volts, 115 Min. DC Anode-Supply Volts, 133 Approx. DC Operating Volts, 108 Regulation Range, 5 to 30 Ma. Regulation Volts, 2								6074/ OB2		
6.3	2.5	41/4	1.72	DC Amplifier									6080-WA		
6.3	0.45	21/8	3/4	Class A ₁ Amplifier Each Unit	100	Res., 50 Comm	Bias Ohms non to units		3.5	6300	6000	38	_	_	6101
6.3	0.45	21/8	3/4	Class A ₁ Amplifier			For d	ata refe	to MI	L-E-1/243	BA specif	ication '	•		6101/ 6J6-WA
6.3	0.3	13/8	0.4	Class A ₁ Amplifier	100	Cath. Bias	_	8.5	_	4000	5000	20		olts for	6111
					100	Cath. Bias	100	2.1	10	500000	3900		Res., 150		
6.3	0.3	21/8	3/4	Class A ₁ Amplifier	250	Cath. Bias	150	4.3	10	1000000	5200	Catl	h. Res., 68	Ohms	6136
6.3	0.3	21/8	3/4	Class A ₁ Amplifier	250 Bias 150 4.3 10 1000000 5200 Cutoff Volts, -6.5								6186/ 6AG5-WA		
6.3 12.6	$\frac{0.3}{0.15}$	23/16	7/8	Class A ₁ Amplifier	For data refer to MIL-E-1/246A specification									6189/ 12AU7-WA	
6.3	0.3	23/16	7/8	Class A ₁ Amplifier	100	Cath.	Res., 270	0 ohms	3.3	14300	4000	57	Cutoff V	7olts, -5	6201
12.6	0.15	~ /16	/8	Ciass Al Ampinici	250	Cath.	Res., 200) ohms	10	10900	5500	60	Cutoff V	olts, -12	
6.3	0.15	1 ³ ⁄ ₈ ●	0.4	Class A ₁ Amplifier	100	Cath. Res. 150 Ohms	100	2.4	7.5	260000	5000	_	-	_	6205

A copy of this specification may be obtained from the Director of the Armed Services Electro-Standards Agency (ASESA) at Fort Monmouth, New Jersey.

Excluding flexible leads.





SPECIAL RED TUBES



For Critical Industrial Applications Where 10000-Hour Life, Extreme Dependability, and Exceptional Stability are Paramount

								Spe	cial	Tes	ts a	nd (ont	rols		
															Llie	Test
RCA) Type	Proto-		Differences E Type and Pr					_	rsion		Stability Control	Dives	titude	Hoater-Cycling	-	our
	type	Name	Rating or Characteristic	Prem. Type	Proto- type	Shock	Fatigue	Vibration	Base Torsion	Aging	Stabilit	Inoperatives	High-Altitude	Hoater	\$00-Hour	1000-Hour
5690	=-	Full-Wave Vacuum Rectifier†	Heater-Cathode Ty has its own heater with individual bations. Full ratings feet.	rand c	athode connec-		,		`	,		,			,	
			Heater Current	0.6	0.3	-					-					-
			Max. Plate Volts	275	300	1										
		777-1-34	Peak H-K Volts	± 100	± 90	1_										
5691	6SL7-GT	High-Mu Twin Triode†	Heaters in series for fail-safe operation	Yes	No	\	,	1	1	N.	1	1	1	1	1	1
			Controlled Plate- Current Balance	Yes	No											
			Max. Plate Volts	275	300											
		Medium-Mu	Plate Dissip., Watts	1.75	2.5										١.	
5692	6SN7-GT	Twin Triodet	Peak H-K Volts	± 100	± 200	N	1	N	V	1	V	V			1	1
			Heaters in series for fail-safe operation	Yes	No			L								
			Plate Dissip., Watts	2	2.5			1								
5693	6SJ7	Sharp-Cutoff Pentode:	Screen Dissip., Watts	0.3	0.7	1	1	\\	V	V	1	$ \vee $	\ V	\ \	\ \V	\v
50,0		rentode;	Peak H-K Volts	+ 100	± 90	1		1								

LOW-MICROPHONIC AMPLIFIER TUBES



RCA) Type	Description
12AY7	Medium-Mu Twin Triode. 9-pin miniature type with a heater-cathode. For use in the first stages of high-gain audio amplifiers where reduction of microphonics, leakage noise, and hum are primary considerations.
1609	Sharp-Cutoff Pentode. Coated-filament type. Small 5-pin base. For new equipment design the 1620 is recommended.
1612	Pentagrid Mixer. Metal type. Similar to 6L7. For volume-expander compressor circuits. Miniature cap. Octal 7-pin base.
1620	Sharp-Cutoff Pentode. Especially designed for applications critical as to microphonics. Metal type similar to 6J7. Miniature cap. Octal 7-pir base.
5879	Sharp-Cutoff Pentode. 9-pin miniature type with heater-cathode. For use as an audio amplifier in applications requiring reduced microphonics leakage noise, and hum.

For key to terminal connections, see page 22. † Glass-octal 8-pin type.

‡ Metal-octal 8-pin type.







SPECIAL RED TUBES

For Critical Industrial Applications Where 10000-Hour Life, Extreme Dependability, and Exceptional Stability are Paramount

Cath	ode	Maxi Dime Inc	nsions	Use Values to right give operoting conditions and characteristics	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resistance	Transcon- ductance	Amplifi- cation Factor	Load for Stated Power	Power Output	RCA) Type
Velts	Amps.	Length	Diam.	for indicated use.	Volts	Volts	Volts	Ma.	Ma.	Ohms	mhos		Ohms	Watts	.,,,,
12.6	1.2	414	12332	Full-Wave Rectifier with Capacitive Input Filter	Filter I	Input C	apacitor, olts at 11	MS), 700 10 µf 0 Ma., 35 Ma., 415	M 55 M	lax. Peak I lax. Peak I lax. Av. Pl otal Effect	Plate Ma. ate Ma. P	Per Plate er Plate,	, 375 75	0 Ohms	5400
6.3	2.4	+ • 4	1232	Full-Wave Rectifier with Inductive Input Filter	AC Volts Per Plate (RMS), 700 Max. Peak Inverse Plate Volts, 1120							5690			
					250	-2	_		2.3	44000	1600	70			
6.3	0.6	2 ⁷ /8	1932	Industrial Service	Grid V	Plate Cu /olts = i μa.	rrent for -5.5,	Differe		late Curre Ma. at Gr				rse Grid 2 max.	5691
					250	-9			6.5	9100	2200	20			7
6.3	0.6	2 7/8	19/32	Industrial Service	Max. P	late Cur /olts = 15 μa.				ate Curre Ma, at Gri		,		se Grid 2 max.	5692
6.3	0.3	25/8	15/16	Industrial Service					3.0 1 Volts, -		1650 Revers	se Grid-N	ο. 1 μα., 0	,1 max.	5693

LOW-MICROPHONIC AMPLIFIER TUBES

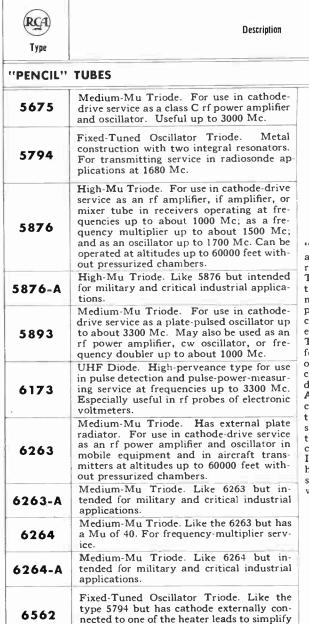
Cath	ode	Maxi Dimer Inc	isions	Use Values to right give operating conditions and characteristics for indicated use.	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resistance	Transcon- ductance	Amplifi- cation Factor	Load for Stated Power	Power Output	RCA
Velts	Amps.	Longth	Diam.		Velts	Volts	Volts	Ma.	Ma.	Ohms	mhes		Ohms	Walts	Туре
12.6 6.3	$\begin{array}{c c} 0.15 \\ \hline 0.3 \end{array}$	23/16	78	Class A₁ Amplifier■	250	-4		_	3	25000	1750	44			12AY7
1.1	0.25	43/16	19/16	Class A ₁ Amplifier	135	-1.5	67.5	0.65	2.5	400000	725			_	1609
				Class A ₁ Amplifier	250	-3†	100	6.5	5.3	600000	1100				
6.3	0.3	31/8	15 16	Mixer in Superheterodyne	250	-3	100	7.1	2.4		r Grid (#3 on Transc		1612		
				As Pentode Class A ₁ Amplifier	100 250	$-3 \\ -3$	100 100	0.5 0.5	2 2	1.0 § 1.0 + §	1185 1225		_		
6.3	0.3	318	1516	As Triode Class A ₁ Amplifier	180 250	-5.3 -8	No. 3 co	o. 2 and onnected late.	5.3 6.5	11000 10500	1800 1900	20 20	_		1620
				As Pentode Class A ₁ Amplifier	250	-3	100	0.4	1.8	2 §	1000	_	_		
6.3	0.15	23/16	7/8	As Triode Class A ₁ Amplifier	100	-3	No. 3 co	o. 2 and onnected late.	2.2	17000	1240	21	=	5879	

Each unit. § Megohms.



[†] For signal input control grid (#1); control grid (#3) bias, -3 volts. * Minimum megohms.





"Pencil" tubes are well adapted for use in the uhf range:—

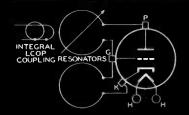
The coaxial-electrode structure is of the double-ended metal-glass type in which the plate cylinder and cathode cylinder extend outward from each side of the grid flange. The latter is particularly effective in permitting isolation of the plate circuit from the cathode circuit in cathodedrive service.

Although designed for use in circuits of the coaxial cylinder type, these tubes are also suitable for use in circuits of the line type and lumped-circuit type.

In addition "pencil" tubes have small size, good thermal stability, and low heater wattage.

For key to terminal connections, see page 22.

Note: The heater leads for these pencil tubes fit the Cinch Socket No. 54A16325 or equivalent.





5893

circuit connections.

Car	thode Amp.	Dime	imum nsions hes	Use Values to right give operating conditions and characteristics for indicated use.	Plate Supply Volts	Grid- No. 1 Volts	Grid- No. 2 Supply Volts	Grid- No. 2 Current Ma.	Plate Current Ma.	AC Plate Resist- ance Ohms	Transcon- ductance Micre- m hes	Amplifi- cation Factor	Load for Stated Power Ohms	Power Output Watts	RCA Type
1								l .						"PENC	IL" TUBE
1				Class A ₁ Amplifier	135	Cath. I	Bias Res.	, 68 ohms	24	3225	6200	20			
6.3	0.135	217/64	53/64‡	Cathode-Drive Osc. at 1700 Mc	120	Grid	Res., 200	0 ohms	25		De Grid	Ma., 4	_	0.475	5675
6.0	0.16	27/16	7/8♦	Radiosonde Service at 1680 Mc	Heat	er-Volta	e Range, A frequ	orift: e, 6.6 to 5. 117 to 95 ency adjustid-Circuit	volts stment se	Max. Free	quency Dr ides a ±1:	ift, +4 t 2-Mc ran	o -1 Mc		5794
				Class A ₁ Amplifier	250	Cath	Rias Res	., 75 ohms	18	8625	6500	56	_		
				Class C Osc. at 1700 Mc	250	-2	—	23			rent (App		na	0.75	5074
6.3	0.135	21764	53/64‡	Tripler to 480 Mc	300	-90	<u> </u>	18			ut Watts (2.1	5876
				Doubler to 960 Mc	300	-70	-	17.3	Dr	iver Outp	2				
	Under glass	rgoes the following tests during manufacture to minimize early failures and to insure dependable performance: fracture, vibrational acceleration, low-frequency vibration, heater-cycling, stability, and survival rate.													5876-
6.0	0.330	25/16	13/16‡	Max. Ratings for a Max. "on" Time of 5 µsec, Absolute Values:											
6.3	0.135	21/4	3/8	Pulse-Detection and Pulse-Power Measurements			Inverse I	Maximum Plate Volts	, 1000	Absolute	Peak P	ulse Plate e Plate M	e Ma, 100 Ia, 1	o	6173
			17.44	Cathode-Drive Osc. at 500 Mc.	350	-35		d current, , 14 ma	40	_	_	_	_	7	4040
6.0	0.28	25/8	17/32	Cathode Drive RF Amplifier at 500 Mc.	350	-58		current,	40		iver Powe Approx., 3			10	6263
				ving tests during manufact ational acceleration, low-											6263-
6.0	0.28	25/8	17/32	Tripler to 510 Mc Cathode-Drive ICAS Conditions	350	-122	DC grid 5.8 ma	l current,	36.5		Driver Por Approx.,			3.4	6264
				ving tests during manufact ational acceleration, low-											6264-
5.2 to 6.6		27/16	7∕8♦	Radiosonde Service at 1680 Mc	Heate	r-Volta Voltage	Range, A	rift: , 6.6 to 5.2 117 to 95 v ncy adjust Grid-Circu	olts I ment scr	Max. Freq ew provid	uency Dri es a ±12-	ft, +4 to Mc range	−1 Mc	−40 °C	6562

‡ Including grid flange. ♦ Maximum radius. • Excluding flexible leads.

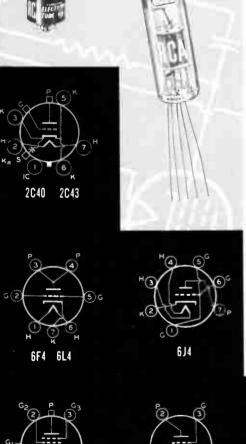








For key to terminal connections, see page 22. Note 1: P is on long part of bulb (top); G_1 is on short part of bulb. Note 2: Long part of bulb is top.





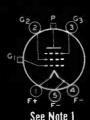
6851



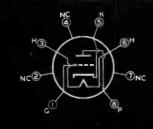




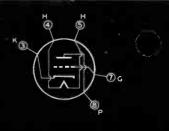








5718



6026

Cat	hode	Maxir Dimen Inch	sions	Use Values to right give operating conditions and characteristics for indicated use.	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resist- ance	Transcon- ductance	Amplifi- cation Factor	Load for Stated Power	Power Output	RCA Type
Veits	Amp.	Length	Diam.		Volts	Voits	Volts	Ma.	Ma.	Ohms	mhos		Ohms	Watts	Турс
													0	THER U	HF TYPE
6.3	0.75	29/16	15/16	Class C Amplifier Oscillator		DC Plate		500 t, 25 Ma.			Peak Hea Plate Dis			± 90	2C4 0
6.3	0.9	211/16	15/16	Class C Amplifier Oscillator		DC Plate		500 t, 40 Ma.			Peak Hea			± 90	2C4 3
6.3	0.225	13/8	15/32	RF Amp. & Osc. Class C Telegraphy	150	-15	_	_	20		rid Ma, 7. Power, 0.		_	1.8	6F4
6.3	0.4	21/8	3/4	Class A ₁ Amplifier	100 150	Cath.		00 ohms 00 ohms	10 15	5000 4500	11000 12000	55 55	_		6 J 4
6.3	0.225	13/8	15 52	Class A ₁ Amplifier	80	Cath.	Res., 1	50 ohms	9.5	4400	6400	28			6L4
٠.٥	0.223	1/8	A /32			Plate V			x. Plate l			te Dissip	ation, 1.7	watts	
6.3	0.15	1 1/8	15/32	Class A ₁ Amplifier Bias Detector	250 250	$-3 \\ -6$	100		ite ma. ac		0.1 with no 0 to 50000		250000		954
6.3	0.15	13/8	15/32	RF Amp. & Osc. Class C Telegraphy	180	-35		aignai.	7	-	DC Grid		na-sen-sh	0.5 at 60 Mc	955
	0.15	17/	95/	Class A ₁ Amplifier	250	-3	100	2.7	6.7	0.7	1800	_	_	_	956
6.3	0.15	1 1/8	15/32	Mixer	250	-10	100	Conv	rersion T	ranscond.,	550 μmho	s Osc	. Peak Vo	olts, 9	730
1.25	0.05	13/8	15/32	Class A ₁ Amplifier	135	-5	_		2	20800	650	13.5	_		957
1.25	0.1	13/8	15/32	RF Amp. & Osc. Class C Telegraphy	135	-20	from § 20000	grid res., ohms	7	DC Grid Driving	Ma, 1 Power, 0.0	35 watt	_	0.6	958-A
1.25	0.05	1 1/8	15/32	Class A ₁ Amplifier	135	-3	67.5	0.4	1.7	800000	600	_	_		959
6.3	0.15	13/8-	0.4	Amplifier and Osc.— Class C Telegraphy	DC	imum R Plate Vo Grid Vol	lts, 165	_	alues: Plate Ma Grid Ma	*			Watts, 3.3		5718
6.3	0.2	11/2=	0.4	400 Mc Oscillator Class C Telegraphy	135		Res., 130 rid Ma,		20	4000	5900	24	_	1.25	6026
5	0.65	193/8	1.38*	RF & IF Amplifier	DC	cal Opera Collective Figur	or Volts				rated Powe	-	t, 1 mw.		6861
6 2	0.15	13/	3/	Class A ₁ Amplifier	250	-3	100	0.7	2	1.0+§	1400	_			9001
6.3	0.15	13/4	3/4	Mixer	250	-5	100	Convers	~	scond., 55			Peak Vol	lts, 4	
6.3	0.15	13/4	3/4	Class A ₁ Amplifier	90 250	$-2.5 \\ -7$	_		2.5 6.3	11400	1700 2200	25 25			9002
6.3	0.15	13/4	3/4	Class A ₁ Amplifier Mixer	250 250	$-3 \\ -10$	100	2.7 Convers		700000 scond., 60	1800 0 μmhos	Osc.	Peak Vo	lts, 9	9003
6.3	0.15	13/8	15/32	Detector Rectifier	1	Max. AC Max. DC		olts, 117		Max.	DC Heater				9004
3.6	0.165	13/8	15/32	Detector Rectifier	1	Max. AC Max. DC		olts, 117 Ma, 1			DC Heater ant Freque				9005
6.3	0.15	13/4	3/4	Detector Rectifier							te Ma, 15 out Ma, 5				9006

§ Megohms.

Excluding flexible leads. Metal shell.













See Note 2

See Note 2 9005

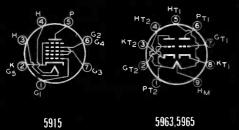
9006

6861

9002

Woll Rash History





TUBES FOR COMPUTER APPLICATIONS

RCA) Type	Description	
5915	Pentagrid Amplifier. 7-pin miniature type. For use as gated amplifier. Grids No. 1 and No. 3 can each be used as independent control grids.	
5963	Medium-Mu Twin Triode. 9-pin miniature type. Has a separate terminal for each cathode. Values shown are for each unit.	
5964	Medium-Mu Twin Triode. 7-pin miniature type. Values shown are for each unit.	
5965	Medium-Mu Twin Triode. 9-pin miniature type. Separate terminal for each cathode. Values shown are for each unit.	Heater-cathode types for electronic computer and other "on-off" control applications involving long periods of operation under cutoff conditions. Provide good consist-
6197	Sharp-Cutoff Power Pentode. 9-pin miniature type. Also useful in pulse amplifier circuits. Has a gm of 11000 micromhos.	ency of plate current during "on" cycles.
6211	Medium-Mu Twin Triode. 9-pin miniature type. Separate terminal for each cathode. Values shown are for each unit.	
6350	Medium-Mu Twin Triode. 9-pin miniature type. Especially useful in high-speed digital computers. Values are for each unit.	,
6887	Twin Diode. Heater-cathode, 7-pin miniate circuits of medium-speed electronic comput 1.26 watts).	ure type. For use in switching ters. Low-wattage heater (only

TUBES HAVING 26.5-VOLT HEATERS



RCA Type	Description	
26A6	Remote-Cutoff Pentode. 7-pin miniature type. Features high transconductance.	
26A7-GT	Twin Beam Power Tube. Single-ended type with a common cathode. Octal 8-pin base.	Of special use in air-
26C6	Twin Diode—Medium-Mu Triode. 7-pin minia- ture. Useful as a detector, amplifier and avc tube.	craft receivers where operating voltages are
26D6	Pentagrid Converter. 7-pin miniature. Useful as mixer and oscillator in superheterodyne receivers.	obtained from 12-cell storage batteries.
6082	Low-Mu Twin Triode. Useful as regulator tube in stabilized dc power supplies subject to shock and vibration. Octal 8-pin base.	

For key to terminal connections, see page 22.



5964



6197







TUBES FOR COMPUTER APPLICATIONS

			imum		ximum F		Use			Grid-No. 2	Grid-		Grid-No. 2	Plate	Grid-No. 1	Grid-No. 3							
Cat	hode		nsions hes		Dissip. 'atts	DC Cathode	Values to right give operating conditions and characteristics	Plate Supply	Grid- No. 1	and ·No. 4 Supply	No. 3 Supply	Plate Current	and ·No. 4	Circuit Resistance	Circuit Resistance	Circuit Resistance	RCA						
Volts	Amp.	Length	Diam.	Each Unit	Both Units +	Current Ma	for indicated use.							Velts	Volts	Volts	Volts	Ma	Ma	Ohms	Ohms	Ohms	Туре
6.3	0.3	21/8	3/4		1	20	Gated Amp: Grid-No. 1 Grid-No. 2	150 150 150	-10▲ 0 0	75 75 75	0 -10 0	0 0 5.8	0 14 9	20000 20000 20000	47000 47000 47000	47000 47000 47000	5915						
12.6	$\frac{0.15}{0.3}$	2 ³ 16	7/8	2.5	5.0	20	Frequency Halfer	150 150	$-15 \\ 0$	· —	_	0 5.1	_	20000 20000	47000 47000	_	5963						
6.3	0.45	21/8	3/4	1.5	3.0	15-	Frequency Halfer	150 150	$-10 \\ 0$		=	<i>0</i> 5		20000 20000	47000 47000	_	5964						
12.6	0.225	22.6	7.				Frequency	150	Plate	olts (Appro- Current of amp = -5.	150		of Units	for Plate	rid Voltages Currents of .5 volts Max.	Resistance =	50/5						
6.3	0.45	23/16	7/8	2.4	4.4	16.5	Divider•	150	Grid	olts (Appro Current of = less than	140	10.5	_	7200	- Modelinasis	_	5965						
6.3	0.65	25/8	7/8	7	7.5	50	Frequency Divider	250* 250*	$-12 \\ -3$	150* 150*	0	0 30	_				6197						
12.6	0.15	23/16	7/8	1.5	3.0	16	Frequency Divider	150	Plate	Volts (Appro Current of = -10 volts	100	_	of Units	for Plate	rid Voltages Currents of 1 volt Max.	Resistance =	6211						
0.5	0.5							150	0 .	-	_	5.15	_	20000	47000								
12.6	6.3	2.5/8	7/8	4	7	45	Cathode Follower	DC F Peak	am Ratin Plate Volt Positive- ite Volts,	Pulse	Values:		Grid Curr		+4 9 = 5.5; peak , dc = 45; pe		6350						
6.3	0.2	1 3/4	3/4	_		30 [△] 10 △	Switching Service	Peak	Inverse l	gs, Absolute Plate Volts, l athode Volt	300			e Current, 30 Current, 10			6887						

TUBES HAVING 26.5-VOLT HEATERS

Cati	iode	Maxi Dimen	sions	USE Values to right give operating conditions and choracteristics for indicated use.	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resistance	Transcon- ductance	Amplifi- cation Factor	Load for Stated Power	Power Dutput	RCA
Volts	Amps.	Length	Diam.		Velts	Volts	Volts	Ma.	Ma.	Ohms •	mhes		Ohms	Walts	Туре
26.5	0.07	21/8	3/4	Class A ₁ Amplifier	26.5 250		26.5 100	0.7 4.0	1.7 10.5	250000 1.0§	2000 4000		Res., 2 meg Res., 125		26A6
26.5	0.6	313/16	15/16	Class A ₁ Amplifier Class AB Amplifier	26.5 26.5	-4.5 -7	26.5 26.5	1.9 2	20 19		5700	_	1500 2500¶	0.165 0.5	26A7-GT
26.5	0.07	21/8	34	Triode Unit as Class A ₁ Amplifier	26.5 250	from grid	d res., 2 r	negohms	1.1 9.5	15500 8500	1100 1900	17 16		_	26C6
26.5	0.07	2 1/8	3/4	Converter	26.5 250	-0.5 -1.5	26.5 100	1.6 7.8	0.45 3	1.0 §	1		cond., 270 cond., 475		26D6
26.5	0.6	41/16	123/32	DC Amplifier■	Plate	num Rat Volts, 25 Ma., 125	0 Plate	solute Val Dissipati H::ater-C	ion, 13 wa	atts olts, ±300		cuit Resistance for as Operation, 1 megohm		iegohm .	6082

[•] Values shown in italics are for cutoff condition; other values are for conduction condition.
• Peak Plate Current.
• Each unit.
¶ Plate-to-plate.

⁴ Grid-No. 1 Supply Volts. * Voltages at electrode terminals. § Megohms. ◆ With both units operating.









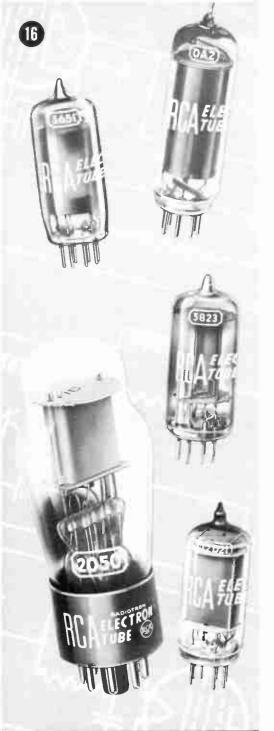


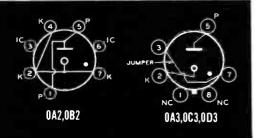
26A7-GT

World Radio H2666

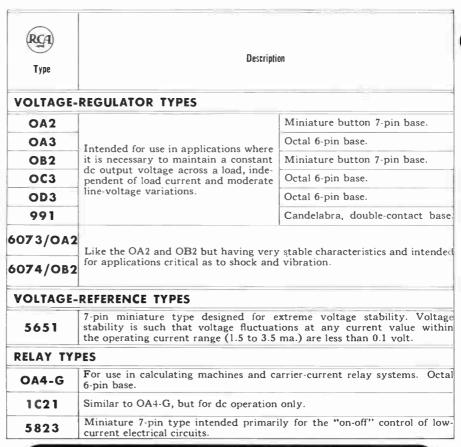
26D6

26A6

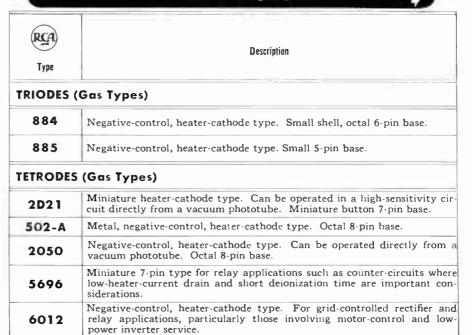




GLOW-DISCHARGE (Cold-Cathode) TUBES



THYRATRONS



For key to terminal connections, see page 22.











GLOW-DISCHARGE (Cold-Cathode) TUBES

								Dj	erating Co	nditions		
	Max. Dir Inc		Max. Starting	DC Ope Curren		Ambient Temperature	Approx. DC	Min. DC	Apprex. DC	Regulatio	n	(RCA)
Applications	Length	Diam.	Current Ma.	Max.	Min.	Range ° C	Starting Volts	Anode-Supply Volts	Operating Volts	Current Range Ma.	Velts	Туре
									VO	LTAGE-RE	GULA	TOR TYPES
	25/8	3/4	75	30	5	-55 to +90	156	185	151	5 to 30	2	OA2
Regulation of dc voltage	41/8	19/16	100	40	5	-55 to +90	100	105	75	5 to 40	5	OA3
supplies for amplifiers,	25/8	3/4	75	30	5	-55 to +90	115	133	108	5 to 30	1	OB2
oscillators, etc.; can also be used as	41/8	19/16	100	40	5	-55 to +90	115	133	108	5 to 40	2	ОСЗ
relaxation oscillators	41/8	19/16	100	40	5	-55 to +90	160	185	153	5 to 40	4	OD3
	19/16	5/8		2	0.4		67	87	59	0.4 to 2.0	8	991
Same as OA2						s Impact Accele						6073/OA2
and OB2						s Impact Acceleration for Ex						6074/OB
									٧	OLTAGE-R	EFERE	NCE TYPES
Voltage-Reference Tube	21/8	3/4	_	3.5	1.5	-55 to +90	107	115	87	1.5 to 3.5	3	5651
				1			1				RE	LAY TYPES
	41/8	19/16				Volts, 225 eakdown Volts, +75	i to +90			ode Current, 100 de Current, 25 r		OA4-G
Relay Service	25/8	15/16	1			Volts, 180 eakdown Volts, +66	to +80			ode Current, 100 athode Current,		1C21
	21/8	3/4	Max. P	eak Anod	e and Sta	rter-Electrode Volt akdown Volts, +73	s, 200	Max. P	eak Catho	ode Current, 100 athode Current,) ma.	5823

TH	Y	R	ΔT	R	0	7	G
							г.

					Approx.			Maximum F	latings				
	Catt	hade	Max. Di	mensions hes	Tube	Temp	perature Range	Peak	Peak				(RCA)
Applications	Velts	Amp.	Length	Diam.	Drop Volts	Condensed Mercury ° C	Ambient	Forward Anode Volts	Inverse Anode Voits	Peak Cathode Amoeres	Average Cathode Amperes	Fault Amperes	Туре
For complete listing	of Thy			wer and	d Gas To	ubes Bookl	let, PG-101-C.	1	I		TRIO	DES (G	as Types)
Relaxation oscillators.	6.3	0.6	4½ Ma:	1%6 k. Ratin	14 gs for R	— elaxation O	-75 to +90 sc., Peak Anode	350 Volts, 3		0.3 Catho	0.075 de Amp.	0.3	884
Relaxation oscillators.	2.5	1.5	43/ ₁₆ Max	1% c. Ratin	14 gs for R	— elaxation O	-75 to +90 sc., Peak Anode	350 Volts, 3	— 00; Peal	0.3 Catho	0.075 de Amp.	0.3	885
											TETRO	DES (G	as Types)
	6.3	0.6	21/8	3/4	8		-75 to +90	650	1300	0.5	0.1	10	2D21
		Т	`ypical (Operatio	n Relay	Service-An	ode Volts, 400;	Grid-No.	1 Circu	it Res.,	1 megoh	m	
	6.3	0.6	25/8	15/16	8		-55 to +90	650	1300	1.0	0.1	10	502-A
High-sensitivity relay control	6.3	0.6	41/8	19/16	8	_	-75 to +90 Grid-No. 1	650 Circuit R	1300 esistano	1.0 e, 10 m	0.1 egohms i	10 nax.	2050
circuits.	6.3	0.15	13/4	3/4	10	_	-55 to +90	500	500	0.1	0.025	2	
		cal Operat		(Voltage (RMS Bias Volts (R		eak Grid-l irid-No. 1	- 0			m	5696
	6.3	2.6	41⁄4	12352	10	_	-75 to +90 Grid-No. 1	650 Circuit F	1300 Resistanc	5 ce, 2 me	0.5 gohms m	20 nax.	6012

All thyratron ratings are for continuous service.



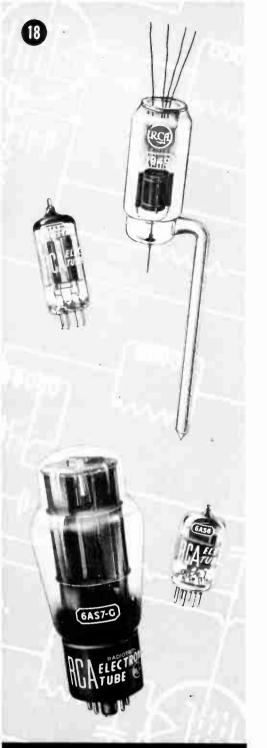


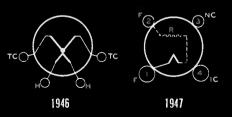




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VACUUM-GAUGE TUBES

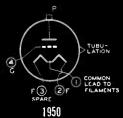
RCA) Type	Description	•
1946	Thermocouple Type. Resistance of thermocouple, 5 ohms approx.	,
1947	Pirani Type. Each tube individually calibrated to 135.8 ohms res., under vacuum better than 3 x 10 5 mm of Hg. Small 4-pin base.	For use in determination of gas
1949	Ionization Type having two tungsten filaments, one a spare.	pressures in vacuum systems and vacuum enclosures.
1950	Ionization Type similar to 1949 but constructed with soft glass.	

MISCELLANEOUS TYPES

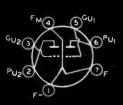
RCA) Type	Description
3A4	Power Pentode. 7-pin miniature, coated-filament, dry-cell type. Can deliver 1.2 watts power output at 10 Mc in rf amplifier service.
3A5	Medium-Mu Twin Triode. 7-pin miniature, coated-filament, dry-cell type. Can deliver 2 watts power output at 40 Mc in push-pull class C service.
5R4-GY	Full-Wave Vacuum Rectifier. Coated-filament type. Useful in aircraft applications at altitudes up to 40000 feet. Octal 5-pin base.
6AG7-Y	Power Pentode. Has a low-loss-phenolic base but otherwise identical with the 6AG7.
6A56	Sharp-Cutoff Pentode. 7-pin miniature type with heater-cathode. For use in gated amplifier circuits, delay circuits, and gain-controlled amplifier circuits.
6A57-G	Low-Mu Twin Triode. Heater-cathode type. Has high perveance, a mu of 2, and an ac plate resistance of 280 ohms. For use as a regulator tube in dc power supplies, and in projection television booster scanning applications. Octal 8-pin base.
65J7-Y	Sharp-Cutoff Pentode. Has a low-loss-phenolic base but otherwise identical with the 6SJ7.
12A6	Beam Power Tube. Metal type with 12.6-volt heater. Octal 7-pin base.
12L8-GT	Twin Power Pentode. 12.6-volt heater. Octal 8-pin base.
125W7	Twin Diode—Medium-Mu Triode. Single-ended metal type with an octal 8-pin base. Similar to the 6SR7 except for heater rating.

For key to terminal connections, see page 22.













VACUUM-GAUGE TUBES

0	ater Or		num Dimen ding Tabula		Туре		Maximum	Ratings		Operating		Range of Gas	s Pressure		RCA
Filar	ment		Inches	Tubula-	of Glass	Filament Volts	DC Plate Volts	DC Grid Volts	Ambient Temp. °C	Position	Use Sensi	Useful Greatest Sensitivity Sensitivity		Greatest Sensitivity	
Volts	Amp.	Length	Diam.	tion Diam.			Duri	ng Operat	ion	1	Microns of Hg	Mm of Hg	Microns of Hg	Mm of Hg	Туре
Htr. 1.0	0.07	61/40	1116	3/8	Hard, Corning Code 772 Nonex			_	_	Any	1000 to 0.1	1 to 10 ⁻⁴	1000 to 1	1 to 10 ⁻³	1946
Fil.	0.07 to 0.1	7916	. 13/6	7 32	Soft, Corning Code 001 Lead	16	_	_	_	Any	1500 to less than 10	1.5 to less than 0.01	500 to 10	0.5 to 0.01	1947
Fil.	3.5	111/20	23/16*	1/2	Hard, Corning Code 772 Nonex	6.5	-100	+200	100	See Note A	below 0.1	below 10 ⁻⁴			1949
Fil.	3.5	111/40	2316*	1/2	Soft, Corning Code 012 Lead	6.5	-100	+200	100	See Note A	below 0.1	below 10 ⁻⁴	,		1950

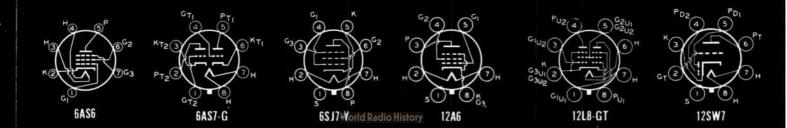
MISCELLANEOUS TYPES

Cath	hode	Maxi Dimer Inc		Use Values to right give operating conditions and characteristics for indicated use.	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resist- ance	Transcon- ductance Micro-	Amplifi- cation Factor	Load for Stated Power	Power Output	RCA
Velts	Amps.	Length	Diam.		Velts	Volts	Volts	Ma.	Ma.	Dhms	mhes		Dhms	Watts	Туре
2.8	0.1			Class A ₁ Amplifier	150	-8.4	90	2.2	13.3	80000	2250		8000	0.7	
1.4	0.2	21/8	3/4	Rf Power Amplifier	150	Grid Leak	135	6.5	18.3	Pov	ver Output	t, 1.2 wat	ts at 10 M	Ис.	3A4
2.8	0.11	-1/	0.4	Class A₁ Amplifier■	90	-2.5			3.7	8300	1800	15	<u></u>		0.5.5
1.4	$\frac{0.11}{0.22}$	21/8	3/4	Push-Pull Class C Amplifier	135	- 20	_	_	30.0 D	riving pow	er, 0.2 wat	t		2.0 at 40 Mc.	3A5
			21.6	At 40000 Feet With Capacitive- Input Filter	1		per Plate rse Volts	. ,.		DC Outpu Peak Plate					5R4-GY
5	2	55/16	21/16	At 40000 Feet With Inductive- Input Filter			oer Plate rse Volts			DC Output Peak Plate		Min, Val		t Choke, 5 henries	
6.3	0.65	31/4	15/16	Class A ₁ Amplifier	300	-3	150	7	30	130000	11000	_	10000	3	6AG7-Y
6.3	0.175	13/4	3/4	Class A ₁ Amplifier	120	-2	120	3.5	5.2	110000	3200	_	_	_	6AS6
6.3	2.5	55/16	21/16	DC Amplifier	Plate	num Rat Volts, 25 Ma, 125	0 Plat	e Watts,		: Volts, ± 30			sistance foration, 1 n		6AS7-G
6.3	0.3	25/8	15/16	Class A ₁ Amplifier	250	-3	100	0.8	3	*	1650	_			6SJ7-Y
12.6	0.15	31/4	15/16	Class A ₁ Amplifier	250	-12.5	250	3.5	30.0	70000	3000	_	7500	3.4	12A6
12.6	0.15	35/16	15/16	Class A₁ Amplifier	180	-9.0	180	2.8	13.0	160000	2150	_	10000	1.0	12L8-GT
12.6	0.15	25/8	15/16	Class A ₁ Amplifier	26.5 250	from g	rid res.,	2 meg.	1.1 9.5	15500 8500	1100 1900	17 16	_	_	125W7

^{*} Maximum radius.

Each unit.

Note A: Vertical, with tubulation up or down; horizontal, with stem press in vertical plane.



[♦] Excluding flexible leads. * Greater than 1 megohm.

MISCELLANEOUS TYPES - Cont'd

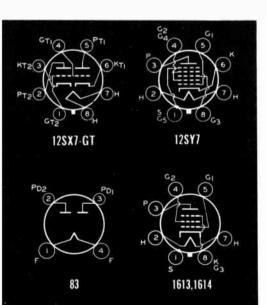


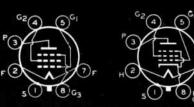
For key to terminal connections, see page 22.

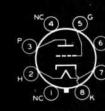


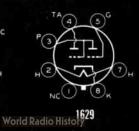
















1619 1621,1622

1626 Wor

1631,1632

1634

MISCELLANEOUS TYPES-Cont'd

Cath	ode	Maxii Dimen Inch	sions	Use Values to right give operating conditions and characteristics for indicated use.	Plate Supply Volts	Grid- No. 1 Volts	Grid- No. 2 Supply Volts	Grid- No. 2 Current Ma.	Plate Current Ma.	AC Plate Resistance	Transcon- ductance Micro- mhes	Amplifi- cation Factor	Load for Stated Power	Power Output Watts	RCA Type
Anira	Amps.	reagin	Dieiii.	Each Unit as	26.5	from gri			1.8	11500	1800	21			
12.6	0.3	35/16	15/16	Class A ₁ Amplifier	250	-8			9	7700	2600	20	-	_	125X7-G
12.6	0.15	25/8	15/16	Converter	26.5 250	-1‡ -2‡	26.5† 100†	1.7† 8.5†	0.45 3.5	1.0§			scond., 250 scond., 450		125Y7
		-24	21/	With Capacitive- Input Filter		C Volts p eak Inve				r. DC Outpo r. Peak Pla			Total Effect d./Plate, 5		83
5.0	3.0	53/8	21 16	With Inductive- Input Filter		C Volts p eak Inver				DC Output Peak Plate			lue of Inpu 3 henries	ıt	
		-1/	45/	Class C Telephony	275	-35	200	10	42		2500			6	1613
6.3	0.7	31/4	15/16	Class C Telegraphy	350	-35	200	10	50	_	2500	-	_	9	1010
		-		Class C Telephony**	375	-50	250	7	93		6050	_	_	24.5	1614
6.3	0.9	4516	15/8	Class C Telegraphy **	450	-45	250	8	100		6050			31	1014
				RF Amp. & Osc. Class C Telegraphy	400	-16.5	300	6.5	75		4500		6000¶	36	1410
2.5	2.0	4 ⁵ 16	15/8	Class C Telephony	325	-50	285	7.5	62		4500			13	1619
				Class C Telegraphy	400	-55	300	10.5	75	_	4500	—	-	19.5	
6.3	0.7	31/4	15/16	Push-Pull Class A ₁ Amplifier	300	-30	300	6.5	38	_	_		4000¶	5	1621
6.3	0.9	45/16	15/8	Push-Pull Class A ₁ Amplifier	300	-20	250	4	86			_	4000	10	1622
12.6	0.25	41/8	19/16	Class C Telegraphy	250	-70	-	_	25	Driving 0.5 watt	approx.	5	_	4	1626
12.6	0.15	41/8	13/16	Visual Indicator	= 2, tr	iode plate	ma, = 0	.2, shado	wangle =	Plate Resi			hadow and	$gle = 0^{\circ}$.	1629
12.6	0.45	45 16	15/8	Push-Pull Class AB ₁ Amplifier	360 360	-22.5 -22.5	270 270	5 • 5 •	88 • 88 •				6600° 3800	26.5 18	1631
12.6	0.6	31/4	15/16	Single Tube Class A ₁ Amplifier	110	-7.5	110	4	49	13000	9000		2000	2.1	1632
12.6	0.15	25/8	1 5/16	Each Unit as Class A Amplifier	250	-2	_	_	2.0	53000	1325	70	_		1634
6.3	0.6	35 16	15/6	Class B Amplifier	300	0		—		ver output : stated plate			12000	10.4	1635
		- 10	- 10	C1 A A1:6**	250	-8	75	2.0	19.0	Lated plate	3600	T	12000	1.4	
6.0° 3.0 ^Δ	0.23° 0.46 ^Δ	25/8	3/4	Class A ₁ Amplifier** RF Amp. & Osc. Class C Telegraphy**	300	-45	75	7.0	25.0	Approx	driving	oower, 0.3		4.5 at 80 Mc	5618
3.0	0.46			Tripler to 80 Mc.**	300	-125	75	5.5	25.0	Approx	driving p	ower, 0.7	5 watts	2.7	1
1.25	0.2	2.38	0.4	Half-Wave Rectifier					s, 10,000 cy, 400	Ke max.		Peak I	ate Ma., Plate Ma		5642
	0.0	1			120	-2	[—		36	1700	11000	18.5	<u> </u>		_
$\frac{6.3}{12.6}$	$\frac{0.9}{0.45}$	23 16	7/8	Class A ₁ Amplifier	180	-7	<u> </u>		21	2100	8250	17.5	ļ —		5687
12.6	0.45				250	-12.5	-	1	12.5	3000	5500	16.5	-		-
6.3	0.15	1.300	0.328	Measurement of Mechanical Vibration	300	0				72000 • 10 volts per ver Resonar	degree (23			<u> </u>	5734
				RF Ampifier Class C Telephony**	300	-42.5	T	6	50	Appro	k. driving watt			10	
6.0	0.75	258	78	RF Amp. & Osc. Class C Telegraphy	300	-60	250	5	50	1	. driving ¡ watt	oower at	50 Mc,	7	5763
				Tripler to 175 Mc.	300	-100	300 •	5	35	Approx	t. driving	power, 0.0	6 watt	1.3	

• For two tubes. • Plate-to-plate. • With a screen resistor of 12500 ohms. • For plate shaft in undeflected position. \$ Including tubulation. \$ Megohms*

** Intermittent Commercial and Amateur Service. • For series filament arrangement, filament voltage is applied between pins No. 1 and No. 7. The grid-No. 1 voltage is

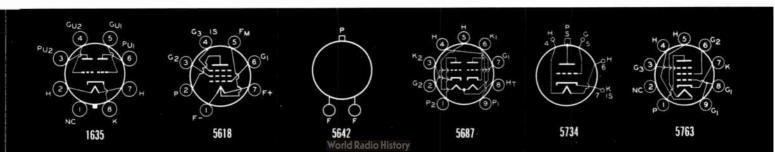
referred to pin No. 1, and grid-No. 3 is connected to pin No. 1.

7 connected together. Grid-No. 1 voltage is referred to pin No. 5, and grid-No. 3 is connected to pin No. 5.

† For No. 2- and No. 4-grids, which are connected internally.

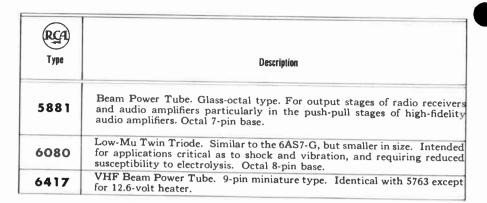
*For No. 3-grid, which is control grid.

*Excluding flexible leads.





MISCELLANEOUS TYPES-Cont'd





LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Diagrams show terminals veiwed from base or filament end of tube.

Alphabetical subscripts B, D, P, T, and TR, indicate, respectively, beam unit, diode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

= Filament FM = Filament Mid-Tap

G = Grid= Heater =Cathode

HM = Heater Mid-Tap = Gas-Type Tube

IC = Internal Connection—

NC = No Connection Do Not Use. P = Plate (Anode) =Internal Shield TA = Target

S = Shell U = Unit

Orientation Symbol Other than Key

Small Pin Flexible Envelope Terminal Large Pin Key

Rigid Envelope **Terminal**

Envelope

In addition to the tube types covered in this booklet,

the ELECTRON TUBE DIVISION of the RADIO CORPORATION OF AMERICA offers the following:

PHOTOSENSITIVE DEVICES

Television Camera Tubes: Image Orthicons, Iconoscopes, Monoscopes, and Vidicons; Phototubes: Single-Unit, Twin-Unit, and Multiplier Types; and Photoconductive Cells.

DRY BATTERIES

For Radios, Flashlights, and Industrial Applications.

RECEIVING TUBES FOR AM, FM, AND TV BROADCAST

Rectifiers, Diode Detectors, Converters, Voltage and Power Amplifiers, Oscillators, Mixers, and TV Picture Tubes.

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For RCA Phonographs, Radios, and TV Receivers.

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Transistors and Diodes.

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For a complete listing of these RCA products, or for technical information on any of these items, see your RCA Tube Distributor, or write to Commercial Engineering, RCA, Harrison, New Jersey.

RCA Technical PUBLICATIONS

SERIHE PIRTS Am





- · schematic diagrams
- wiring diagrams
- alignment procedures
- wareforms
- trouble-shooting suggestions
- latest production changes
- complete parts lists
- top and bottom chassis views
- · voltage charts
- · shop tips

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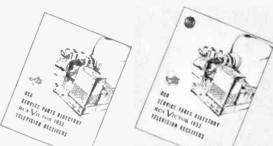
Vol. No.	Years	Pages	Price		
1	1923-1937	880	\$3.50		
11	1938-1942	816	\$4.00		
111	1943-1946	290	\$4.00		
IV 1947-1948		566	\$6.00		
V	1949	330	\$5.00		
VI	1950	472	\$5.50		
VII	1951	304	\$5.00		
VIII	1952	314	\$5.00		











• SERVICE PARTS DIRECTORIES FOR RCA VICTOR TV RECEIVERS—SP-1007 (10%" x 16%") 80 pages. Schematic diagrams and replacement parts lists for all RCA Victor TV receivers manufactured from 1946 through June 1950 (56 models). Each schematic diagram faces its corresponding parts list for quick reference. Price, 75 cents per copy.

SP-1014 (10%" x 1634") 142 pages. Schematic diagrams, replacement parts, and top and bottom chassis views for the 71 models of 1950 and 1951 RCA Victor TV receivers. The comprehensive index for model and chassis numbers provides a ready source of reference. Price, \$1.50 per copy.

SP-1021 (10%" x 1634") 36 pages. Schematic diagrams, wiring diagrams, replacement parts, and top and bottom chassis views for the 27 models of 1952 RCA Victor TV receivers. The comprehensive index cross-references RCA TV model names to model numbers, and model numbers to the publication in which information may be found. Price, 50 cents per copy.

SP-1028 (10%" x 16¾") 84 pages. Schematic diagrams, wiring diagrams, replacement parts, and top and bottom chassis views for the 108 models of 1953 RCA Victor TV receivers. Also includes schematic diagrams, replacement parts, and other information for radio chassis used in radio-TV combination receivers. Cross-references model names to model numbers of all RCA TV receivers from 1946 through 1953. Cross-references all model numbers and chassis numbers to the publication in which information may be found. Price, \$1.35 per copy.

- RCA VICTOR TV SERVICE PARTS GUIDE—SP-2001 (10% x 8 \% x) 12 pages. Lists stock numbers of major replacement parts for RCA Victor TV sets by receiver model number. Covers period from 1946 through 1953. Price, 25 cents per copy.
- RCA TELEVISION TUNER PARTS GUIDE—SP-2002 (10%" x 83%") Single sheet. Lists stock numbers of tuner-replacement parts by tuner-chassis numbers. Also lists tuner-chassis numbers by RCA Victor model numbers. Covers period of 1946 through 1953. Single copy free on request.
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These publications may be obtained from your RCA Tube Distributor or direct from Commercial Engineering, Tube Division, Radio Corporation of America, Harrison, New Jersey.



RADIO CORPORATION of AMERICA

TUBE DIVISION

HARRISON, N. J.

TECHNICAL PUBLICATIONS _____ON RCA ELECTRON TUBES ___



RCA

- TUBE HANDBOOK—ALL TYPES HB-3 (73%" x 5"). The bible of the industry—contains over 3000 pages of loose-leaf data and curves on all RCA receiving tubes including kinescopes, power tubes, cathode-ray tubes, phototubes, and special tubes. Four deluxe 4-prong binders imprinted in gold. Available on subscription basis. Price \$13.50* including service for first year. Write to Commercial Engineering for descriptive folder and order form.
- RECFIVING TUBE MANUAL—RC-17 (8 ½ x 5 ½ ") -320 pages. Supersedes RC-16. Revised, expanded, and brought up to date. Contains the latest receiving tubes, including types for black-and-white and color television applications. Features tube theory written for the layman, application data, Resistance-Coupled Amplifier Section, and several new circuits for high-fidelity audio amplifiers. Features lie-flat binding. Price 60 cents.*
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- INSTRUCTION BOOKLETS—Complete authorized information on RCA transmitting tubes and other tubes for communications and industry. Be sure to mention tube-type booklet desired. Single copy on any type free on request.
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- PRACTICAL COLOR TELEVISION—Revised Edition (8½" x 11")—84 pages. Black-and-white and color illustrations. Presents comprehensive information on basic color principles, transmitted color signal, color camera, and color kinescope. Covers commercial-model receiver circuit using the RCA-15GP22 kinescope, as well as installation and service of color receivers. Provides detailed description of latest color-test equipment. Price \$2.00.**

Copies of the publications listed above may be obtained from your RCA Tube Distributor, or direct from Commercial Engineering, Tube Department, Radio Corporation of America, Harrison, New Jersey.



RADIO CORPORATION of AMERICA

DE DIVISION HARRISON, N.

MISCELLANEOUS TYPES-Cont'd

Maximum Cathode Dimensions		nsions	Use Values to right give operating conditions and characteristics for indicated use.	Plate Supply	Grid- No. 1	Grid- No. 2 Supply	Grid- No. 2 Current	Plate Current	AC Plate Resistance	Transcon- ductance	Amplifi- cation Factor	Load for Stated Power	Power Output	RCA) Type	
Velts	Amps.	Length	Oiam.		Velts	Volts	Velts	Ma.	Ma.	Ohms	mhos		Ohms	Watts	
					250	-14	250	7.6	80	30000	0 6100 — 2500 6.7				
		_ 15 6	1 .7.	Class A ₁ Amplifier	350	-18	250	8.5	65	48000	5200	_	4200	11.3	5881
6.3 0.9	315/32	$\frac{17}{16}$	Push-Pull	360	-22.5	270	15	132		_	T —	6600	26.5	3661	
				Class AB ₁ Amplifier	360	-22.5	270	11	140	_	_		3800	18	
6.3	2.5	41/16	123/32	DC Amplifier	Maximum Ratings, Absolute Values: Plate Volts, 250 Plate Dissipation, 13 watts Plate Ma, 125 Peak Heater-Cathode Volts, ±300 Cath. Bias Operation, 1 megohm							6080			
12.6	0.375	25/8	7/8	For other characteristics, refer to type 5763									6417		

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