

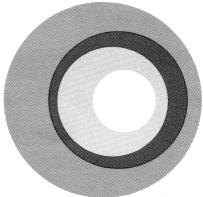
Reference Guide to Commercial and Developmental Types



Single-and Double-Ended Types



Integral-Cavity Amplifiers





RADIO CORPORATION OF AMERICA ELECTRONIC COMPONENTS AND DEVICES MARRISON, N. J. Trademark(s) ® Registered Marca(s) Registrada(s)

RCA NUVISTOR TUBES											RCA INTEGRAL-CAVITY TRF AMP			LIFIERS							
ITEM				Commercial		USTRIAL Specification		AILITARY°		De	velopmental T	ypes ^b		TERTAINME Commercial Types	ΝΤ		ITEM	Commercial Type	Develo	pmental Ty	ypes ^b UNI ⁻
RCA TYPE	7586	7587	7895	8056 (A15247A)	8058 (A15211)	8203 (A15250)	8393	8627 (A15294B)	8628 (A15460)	A15274B	A 15526 ^d	A15533		3CW4 2DS4 ^e 6DS4 (A15272) (A15251D	2DV4 ^e 6DV4	8	RCA TYPE Former RCA Dev. Type	FD-2200 (A15477E)	A15474D	A15515	A 15528
Former RCA Dev. Type Description	Medium-Mu Triode	(A2654F) Sharp-Cutoff Tetrode	(A15246) High-Mu Triode	Medium-Mu Triode	High-Mu Triode	Power Triode	(A15342)	Power Triode	High-Mu Triode	Medium-Mu Extended-Cutoff Triode	Power Triode	High-Mu Triode	High-Mu Triodes	High-Mu Extended-Cutoff Triodes	Medium-Mu Triodes		Description	1030-Mc, 3-Stage Amplifier & 3-Section	1030-Mc, 1-Stage Amplifier	1090-Mc, 3-Stage Amplifier & 3-Section	1030-Mc, 2-Stage Amplifier
Intended Application	General Purpose	General Purpose	General Purpose	e Low B+, Low-Noise RF or IF Amplifier; Multivibrator; or Cathode Follower	; UHF Amplifier,	RF Power Amplifier, Oscillator, or Frequency Multiplier:	Medium-Mu Triode Except for heater characteristics,		For LF Applica- tions Requiring High Input Impedance & Low Grid Currents		Grounded-Grid Pulsed or CW Low-Level Class-C RF Power Amplifier, Oscillator, or	For LF Applica- tions Requiring High Input Impedance & Low Grid Currents	FM Receivers t	In An- tenna oosters	Local Oscillator in UHF TV Re- ceivers		Intended Application	Filter (Preselector) Aircraft Transpo Applications			
Military-Spec. Type	JAN-7586	JAN-7587	JAN-7895	JAN-8056	JAN-8058	-	7586			_	Frequency Multiplier						Military Specification ^c	Meets Specificat as Covered in M	tion for Class lilitary Specif	S-2 Electronic E lication MIL-E-5	400G
Military Specification ^c		MIL-E-1/1434B	MIL-E-1/1433B		MIL-E-1/1491A	-		-	_	-	-	-				-	Electrical Characteristics: $E_{f}/stage$	6.3	6.3	6.3	6.3 volts
Electrical Characteristics	6.3	6.3	6.3	6.3	6.3	6.3	13.5	6.3	6.3	6.3	6.3	6.3	2.1 6.3	13.5 2.1 6.3	2.1 6.3	volts	$ \begin{array}{c} I_{f} (total) \\ P_{f} (total) \end{array} $	$\begin{array}{c} 405 \\ 2.55 \end{array}$	$\begin{array}{c} 135 \\ 0.85 \end{array}$	$405 \\ 2.55$	270 ma 1.70 watts
	135	150 0.95	135 0.85	135 0.85	135 0.85	160	60 0.81	150 0.95	100 0.63	68 0.42	340 2.14	68 0.43	450 135	60 450 135 0.81 0.95 0.85	450 135 0.95 0.85	ma watts	$E_{kkp}/stage$	-100 3.9	-100 22	-100 3.9	-100 volts 47 ohms
$\left \begin{smallmatrix} \mathbf{P_{f}} \\ E_{bb} \end{smallmatrix} \right $	$\begin{array}{c} 0.85\\ 26.5 & 75\end{array}$	0.95 125 (E _{cc2} , 50)	110	24	110	75 150	0.01	110	120	60	200	60	70 110	70 110	75	\mathbf{volts}	R_{2k}^{1k}	22 47	-	22 47	47 ohms - ohms
R_k R_q	- 100 0.5 -	- 68	150 -	100	47 -			47	200 1	100	68 -	100	- 130 0.047 -	- 130 0.047 -	- 100	ohms megohms		1500	4700	1500	1500 ohms
μ	$\begin{array}{ccc} 31 & 35 \\ 4400 & 3000 \end{array}$	- 0.2 Meg	64 6800	$11.5 \\ 1530$	70 5600	35 30 2700 5000		70 5600	$\frac{127}{41000}$	35 3200	100 6400	$\frac{125}{2100}$	68 65 5440 6600	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	35 3100	ohms	I _k (total) E _{gk(co)} /stage @	34	12	34	21 ma
^r p g _m	7000 11500	10600 10	9400	7500 8.7	$\begin{array}{c} 12400 \\ 10 \end{array}$	$\begin{array}{ccc} 13000 & 6000 \\ 11.5 & 7 \end{array}$		12400 10	$3100 \\ 1.5$	10800	18000 15	6000 1.7	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccc} 12500 & 9000 \\ 7 & 6.5 \end{array}$	11500 10.5	µmhos ma	$I_k/stage = 10 \ \mu a$ Maximum Ratings:	-5	-5	-5	-5 volts
I _b I _{c2}	2.8 10.5	2.7	-	-	-			-	-	-	-			· · · · · · · · · · · ·	-	ma	RF Input:	10	10	10	1.0
$E_{c1}(co) @ I_b = 10 \ \mu a$	7	-4.5	-4	-5 @ 50 μa	-5	-6.5 -15 Class C		-5 Class C	-1.7	σ-	-5 @ 100 μa Class C	-1	4	6.8	-7	volts	e _m @ P _(av) = -20 dbm E _{kkp} /stage	10 -150	10 -150	10 -150	10 volts -150 volts
Maximum Ratings;	Class A	Class A	Class A 330	Class A	Class A 330	CCS ICAS 400 400		CCS ICAS 500 500	Class A	Class A , 330	CW Pulsed	Class A 330	Class A 300	Class A 300	Class A 300	volts	E _{kp} /stage	-110 (+0	-110 (+0	-110 (+0	-110 volts
E_{bb}	330 110	330 (E _{cc2} ,330) 250 (E _{c2} ,110)	110	50	150	250 300		250 300	250	110	300 1000	110	135	135	125	volts	E _{gk} /stage e _{hkm} /stage	{-100 ±150	{-100 ±150	{-100 ±150	$\begin{array}{c} 100 \\ \pm 150 \end{array}$ volts
E _{c1}	-55	-55	-55	-55	-55	$\begin{cases} +0 & +0 \\ -100 & -100 \end{cases}$		$\begin{array}{c} +0 \\ -100 \end{array}$ +0 -100	-55	-55	$\begin{cases} +0 & +0 \\ -100 & -100 \end{cases}$	-55	-55	-55	-55	volts	E _f /stage	\ 6.6 max	\ 6.6 max	(6.6 max	§6.6 max
e _{c1m}	4	2	2 ± 100	2 ± 100	+0 ±100	$5 5 \pm 100 \pm 100$		$\begin{array}{ccc} 4 & 5 \\ \pm 100 & \pm 100 \end{array}$	+0 ±100	+0 ±100	$\begin{array}{ccc} 10 & 30 \\ \pm 100 & \pm 100 \end{array}$	+0 ±100	+0 ±100	+0 ±100	2 ± 100	volts volts	$I_k/stage$	(6.0 min 20) 6.0 min 20	{6.0 min 20	6.0 min 20 ma
^e hkm I _{c1(av)}	$\frac{\pm 100}{2}$	$\frac{\pm 100}{2}$	2	2	0	5 6		5 - 6	0	0	- i _{km} =1amp ^k	0	0	0	5	ma	R _g (common)	0.1 115	$0.5 \\ 115$	0.1 115	0.5 megoh 115 ^o C
$P_{g2}^{I_k(av)}$	15 -	$\begin{array}{c} 20 \\ 0.2 \end{array}$	15 -	15	15	25 30		25 30 	-	-	$P_{g1} \frac{200^{m}}{c^{n}} \frac{200^{m}}{6^{n}} mw$		-	-	-	ma watts	Altitude	Any	Any	Any	Any -
P _b	1 0.5/1	$2.2 \\ 0.5/1$	1 0.5/1	0.45 10/10	1.5 0.5/1	$\begin{array}{ccc} 1.5 & 1.8 \\ 0.05 & 0.05 \end{array}$		$\begin{array}{ccc} 2.5 & 2.7 \\ 0.05 & 0.05 \end{array}$	0.3 50/100	0.75 0.5/1	⁵ 6 ⁿ 6 ⁿ 0.5 0.5	0.75	1.5P 0.5/2.2	1.5P 0.5/2.2	1 0.1/0.2	watts megohms	s Ao ^s	45.5	15	45.5	28 db
R _{g1} (circuit) ^r Altitude	100,000	100,000	100,000	100,000	100,000	100,000		100,000	100,000	100,000	100,000 50,000	100,000	-	_	-	ft	NF @ f _o Bandwidth @	11.5	10.5	12	10.5 db
f (useful): ^m As amplifier	400	250	400	300	1200	250		1200	200 kc	1200	1200	-		-	- -	Me	-3 db level -6 db level	-	15 -	- 8	19 Mc - Mc
As oscillator Typical Operation:	1000 NF @ 200 Mc	850 R _{eq} @ = 30 Mc	1000 NF @ 200 Mc	800 NF @ 200 Mc	1200 NF @ 1000 Mc	800 P _o (useful) @ 160 Mc		1200 P _o (useful) @ 1000 Mc	200 KC	NF @ 1000 Mc	1200 P _o (useful) @ 1000 Mc		-	-		Mc	-40 db level	22.3	-	23	- Mc
Amplifier	4.3 db	1500 ohms	4.3 db	4 db	11 db	1.55 w		1.4 w	I _c = -1 na @ P _b = 0.3 w	10 db	5 w				I _c @ 950 Mc 350 μa		Attenuation @ f _o -25 Mc	70		70	- db
Oscillator Doubler	-			- -	-	0.8 w 0.85 w		1.25 w 0.5 w	@ P _b - 0.3 w	-	4 w 3 w			_	330 <i>µ</i> a	-	f _o +25 Mc P _{total}	77 6.2	- 2	70 6.2	- db < 4 watt
Mechanical: 1 _m (overall)	0.800	1.050	0.800	0.800	0.985	0.800		0.985	0.800	0.775	0.985	0.775	0.800	0.800	0.800	inch	Initial Chars. Limits: Stability, T _A = -54 to				
(seated)	0.625	0.840	0.625	0.625	0.780	0.625		0.780	0.625 0.440	0.575 0.275	0.780 0.440	0.575 0.275	0.625 0.440	$0.625 \\ 0.440$	$0.625 \\ 0.440$	inch inch	+95° C:				
d _m Base	0.440 5-Pin	0.440 5-Pin	0.440 5-Pin	0.440 5-Pin	0.440 5-Pin	0.440 5-Pin		0.440 5-Pin	0.440 5-Pin	4-Pin In-Line	6-Pin	4-Pin In-Line	5-Pin	5-Pin	7-Pin		$\Delta \mathbf{A}_{\mathbf{O}}^{\mathbf{U}}$	±1 max ±2 max	- ±2 max.		- Mc ±2 max db
Top-Cap Diameter Other Developmental		0.250		-	0.250	-		0.250	-	0.165	0.312	0.165	-	-	-	inch	RF-Input VSWR @ f _o Mechanical:	1.5 max Ampl Filter	1.5 max.	1.5 max Ampl Filter	1.5 max -
Versions: ^b	A 15010	A 0700	A 15901	A 15 9 10	A 15990	A15317	A15343	A15318	A15478	A15388							lm (shell) ^V	7.80 8.75	2.68	7.20 8.26	5.23 inch
Long-Lead Types ^g 13.5-V-Heater Types ^h	A15212 See 8393 above	A2702 A2708	A15321 A15348	A15319 A15305	A15320 A15353	A15317 A15346	A 10040 -	A15318 A15355	A15478 A15493	-				- · · ·		-	d _m (shell) ^V Weight (total, approx.)	$\begin{array}{c} 0.892 & 0.873 \\ 7 \end{array}$	$\begin{array}{c} 0.892 \\ 1.6 \end{array}$	$\begin{array}{c} 0.892 0.873 \\ 7 \end{array}$	0.892 inch 3 oz

- G Subjected to special controls on critical characteristics, environmental tests (shock, fatigue, vibration, altitude), and special life tests.
- **b** The number identifies a particular laboratory tube design but the number and identifying data are subject to change. No obligations are assumed as to future manufacture unless otherwise arranged.
- C Copies are available from: Specifications Division, Naval Supply Depot, 5801 Tabor Ave., Philadelphia, Pa. 19120.

d Developed under Buships, U.S. Navy contract.

- e Bogey heater warm-up time = 8 sec. for series-heater-string applications.
- For fixed-bias/cathode-bias operation; single values are for either. For industrial and military types, at $T_{shell} = 150^{\circ}$ C; max. T_{shell} with R_{g1} derating = 250° C. For entertainment types, at $T_{shell} = 135^{\circ}$ C.

- 9 Intended for applications where it is desired to avoid use of a tube socket (such as printed-circuit-board applications; short-life, no-replacement applications; and applications at frequencies where re-actances caused by use of a socket would result in substantially-lowered tube performance). These types differ primarily from their consisting protectings in their they do not have either indexing lugg or respective prototypes in that they do not have either indexing lugs or base skirt, and in place of base pins have leads of length 0.750 inch min. RCA will entertain requests for other versions of specific prototypes having any number of long leads up to a maximum of 3 per electrode.
- h Intended for hybrid-equipment applications. RCA will entertain requests for other versions of specific prototypes having a bogey $\rm E_{f} <$ 13.5 V with a corresponding bogey I_f such that cathode temperature is held constant.
- k For DF \leq 0.01; for DF > 0.01 and \leq 0.5, $i_{\rm km}$ derating is required.
- m For metal-shell-to-ceramic-insulator seal temperatures up to 100° C. Higher temperatures permissible with Pg1 derating.
- n For top-cap-to-ceramic-insulator seal temperatures up to 150° C. Higher temperatures permissible with Pb derating.
- **p** With series plate-circuit resistance = 5000 ohms min.

q A mechanically-modified Type 8058 nuvistor tube is utilized in each amplifier stage. The plate and one end of the heater of each tube are connected to a common dc-ground terminal (tab) on the metal shell of the amplifier; the cathode and other end of the heater are brought out to separate terminals through 470-pF feed-thru capacitors; the grid has a separate terminal and is bypassed with a 1000-pF capacitor. Each amplifier or amplifier-filter combination has an input impedance of 50 ohms, and is designed for use with a load having an impedance of 50 ohms. RF terminals on each filter or amplifier are designed to mate with screw-on connectors Sealectro Corp. (225 Hoyt St., Mamaroneck, N.Y. 50944) Part No. 50 007 0000, or equivalent. For rigid filter-to-ampli-fier interconnection, Sealectro 50 073 000, 50 073 0029, or equivalent,

may be used; for flexible interconnection, RG 188/U coaxial cable is recommended. <u>RCA will entertain requests for other TRF Amplifiers</u> having a center frequency within the range of 470 Mc to 1200 Mc. r At $T_A = 25^{\circ}C$ and under same conditions as shown for Electrical Chars.

- $\boldsymbol{\mathsf{s}}$ Amplification (voltage gain) at center frequency $f_{0}.$
- † Change in $f_{0};$ measured as average of $\bigtriangleup f_{L}$ and $\bigtriangleup f_{U}$ at -6 db level.
- U Change in A_0 from its value at $T_A = 25^{\circ}C$. Exclusive of terminals.

NUVISTOR-TUBE SOCKET & CONNECTOR INFORMATION^a

		SOCKET							
NUVIS TYF		Mounting	Body Material ^b	Cinch Mfg. Co. ^c No.	Cinch-Jones Sales-Division ^d Distributor No.				
2CW4	7586		MFP	133 65 10 001	5NS				
2DS4	7587	Crimp	DIALL 🔺	133 65 92 025	-				
6CW4	7895		TEFLON	133 65 91 034	-				
6DS4	8056	Flange	MFP	133 65 10 003	5NS-1				
13CW4	8393	Printed-Board (Stand-Off)	MFP	133 65 10 009	5NS-2				
8058 8203 8627		Crimp	MFP	133 65 10 041	5NS-3				
2DV4 6DV4 A15526		Crimp	HALON ^[]	133 67 90 040	5NS-4				
			DIALL	133 65 92 025	-				
8628		Crimp	TEFLON	133 65 91 034	-				
A15274B		Swaged	MFP	131 35 10 014	-				
A15533		Spring	MFP	131 35 10 014 with Mounting Spring 441 00 23 094	-				

NUVISTOR TYPE	TOP-CAP CONNECTORCinch Mfg. Co. < No. 422 03 22 017 or 422 03 22 024, or equivalent ''1/4-inch'' connector.					
7587 8058 8627						
A15274B A15533	International Electronic Research Corp. ^e Part No. TXB2P-019-028G					
A 15526	For Distributed-Con- stant Circuit	International Electronic Research Corp. ^e Therma-Link Retainer Part No.TXBE-032-031G				
A13320	For Lumped-Con- stant Circuit	Wakefield Engineering, Inc. ^f Semiconductor Cooler Type NF207				

Information on sockets or connectors having different materials or finishes may be obtained from the manufacturers listed. Sockets or connectors having comparable mechanical and electrical characteristics may be available from other manufacturers.

MFP =general-purpose, low-loss Mica-Filled Phenolic; DIALL
 = glass-filled Diallyl Phthalate for missile, satellite, and other high-vacuum applications; TEFLON and HALON are for low-rf and low-leakage loss, high-temperature applications.

TRADE MARK: Mesa Plastics Co., Los Angeles, Calif.

TRADE MARK: Allied Chemical Corp., Morristown, N.J.

C 1026 South Homan Ave., Chicago, Illinois 60624. Tel: (312) NE 2-2000.

- d This number appears in many distributors' catalogs.
- e 135 West Magnolia Blvd., Burbank, Calif. 91502.Tel: (213) 849-2481.
- f 139 Foundry St., Wakefield, Mass. 01880. Tel: (617) 245-5900

 TRADE MARK: E.I. DuPont de Nemours & Co., Inc., Wilmington, Del.

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FIELD OFFICES

EQUIPM	ENT S	SALES
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GO

East	Newark Syracuse Needham	32 Green St., Newark, N.J. 07102 731 James St., Room 402, Syracuse, N.Y. 13203 64 ''A'' St., Needham Heights, Mass. 02194	(201) 485-3900 (315) 474-5591 (617) 444-7200
Mid- Atlantic	Haddonfield	605 Marlton Pike, Haddonfield, N.J. 08034	(609) 428-4802
	Orlando	200 East Marks St., Orlando, Fla. 32803	(305) 425-5563
Central	Chicago Detroit Minneapolis	446 East Howard Ave., Des Plaines, Ill. 60018 714 New Center Bldg., Detroit, Mich. 48202 5805 Excelsior Blvd., Minneapolis, Minn. 55416	(312) 827-0033 (313) 875-5600 (612) 929-0676
Mid-			
Central	Indianapolis	2511 East 46th St., Bldg. Q2, Atkinson Square, Indianapolis, Ind. 46205	(317) 546-4001
West	Hollywood Los Altos Seattle	6363 Sunset Blvd., Hollywood, Calif. 90028 4546 El Camino Real, Suite P, Los Altos, Calif. 94022 2250 First Ave. South, Seattle, Wash. 98104	(213) 461-9171 (415) 948-8996 (206) MAin 2-8816
VERNMENT	SALES		
	Ugmicon	415 South Eight St. Howissen N. L. 07090	(201) 485 2000

Harrison	415 South Fifth St., Harrison, N.J. 07029	(201) 485-3900
Dayton	224 North Wilkinson St., Dayton, Ohio 45402	(513) 461-5420
Washington	1725 "K" St., N.W., Washington, D.C. 20006	(202) 337-8500
Wushington	1120 K St., N.W., Washington, D.C. 20000	(202) 001-0000

NUVISTOR-TUBE RELIABILITY

Production Tests (At Max.-Rated Pb)

Based on over 1,662,000 tube-hours of regular-production life tests, nuvistor type 7586 has had an observed Failure Rate of 0.54% per 1000 hours during the first 5000 hours of operation at maximum-rated platé-dissipation conditions ($E_f = 6.3$ volts, $E_b = 100$ volts, $E_c = -1.85$ volts, $R_g = 0.5$ megohm, $E_{hk} = 100$ volts, $P_b = 1$ watt and $T_E = 150^{\circ}C$ min).

Engineering-Evaluation Tests (At Reduced Pb)

Based on over 1,541,000 tube-hours of engineeringevaluation life tests, nuvistor type 7586 has had an observed Failure Rate of 0.065% per 1000 hours out to 20,000 hours of operation at reduced plate-dissipation (normal-operation) conditions (E_f = 6.3 volts, E_{bb} = 75 volts, R_k = 100 chms, R_g = 0.5 megohm, P_b = 0.75 watt, and T_E = 150°C min).

UNIFORMITY OF NUVISTOR-TUBE CHARACTERISTICS

The critical characteristics of RCA nuvistor tubes have an extremely high degree of uniformity from tube to tube, both initially and throughout life when compared to conventional electron tubes. This exceptional uniformity results from the unique nuvistor-tube design, the special methods of assembly and processing, and a rigorous Quality-Assurance Program. Industrial and Military types are subjected, on a statistical-lot-sampling basis, to Initial Variables Controls to assure that the spread of critical characteristics is narrow and that the sample average is close to the established bogey value. In addition, Life-Test end-points assure that (1) the Transconductance Change with Operating Time for an individual sample tube and the Sample Average of these individual changes, are small and (2) the Useful Power Output for class C types is above an established minimum value.

NUVISTOR TUBES and NUCLEAR RADIATION

Pulse Nuclear Irradiation

Nuvistor tubes have been operated as af-amplifier tubes and monitored before, during, and after exposure to pulse nuclear radiation having a Peak Fast-Neutron Flux of 10¹⁵ neutrons per square centimeter per second and a Peak Gamma Intensity of 10⁷ roentgens per second. The transient response of all tubes monitored followed the nuclear-radiation pulse and returned to normal, with no permanent damage to the tubes.

Steady-State Nuclear Irradiation

Type 7586 nuvistor tubes have been operated, for 3 hours, in a nuclear-radiation environment having a constant Fast-Neutron Flux of 10^{13} neutrons per square centimeter per second and a Gamma Intensity of 10^8 roentgens per second.

During the 3-hour exposure to nuclear radiation, the tubes continued to operate with no permanent damage.

ADDITIONAL TECHNICAL INFORMATION

Additional technical information on the RCA Nuvistor Tubes and Integral-Cavity TRF Amplifiers listed in this abbreviated Reference Guide is available, in the following forms, from your nearest RCA Field Office, or from Commercial Engineering, Electronic Components and Devices, RCA, Harrison, New Jersey 07029.

Technical Bulletins

For each commercial type.

Preliminary and Tentative Data Sheets For each developmental type.

Brochure

1CE-280 RCA Nuvistor Tubes for Industrial and Military Applications.

Application Notes

AN-191 RCA-6CW4 and 2CW4 Nuvistor Triodes as RF Amplifiers in VHF Television Tuners.

AN-193 Use of RCA-7587 Industrial Nuvistor Tetrode in RF and IF Applications.

AN-195 Noise and Gain of the RCA-8056 Nuvistor Triode at 200 Mc.

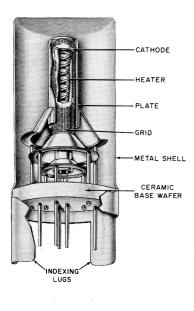
AN-196 Temperature Ratings and Thermal Considerations for Nuvistor Tubes.

Preliminary and Tentative Application-

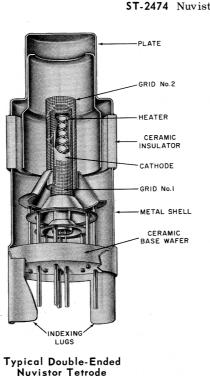
Information Reports

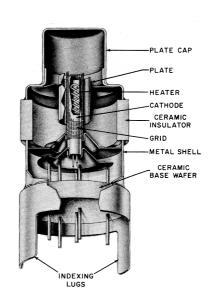
ST-2296 Nuvistor Nuclear-Radiation Testing.

ST-2474 Nuvistor Environmental Performance.



Typical Single-Ended Nuvistor Triode





Typical Double-Ended Nuvistor Triode

ADV Plans, LL

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