## TYPE DESIGNATION CODE FOR RADIO AND TELEVISION RECEIVING TUBES

This type designation code relates to tubes designed for use primarily in reproducing and recording equipment for domestic applications such as: radio and television receivers, record players, tape recorders and audio amplifiers, home cinema projectors, hearing aids, and similar equipment.

The type designation consists of:

## TWO OR MORE LETTERS FOLLOWED BY A SERIAL NUMBER

PL500 TT					
First letter indicates the heater voltage or current	Second and subsequent letters indicate the construction and/or application of the tube. (If there is more than one electrode system these letters are placed in alphabetical order.)	Serial number			
D < 1.4 V; series or parallel supply E 6.3 V; series or parallel supply G miscellaneous; parallel supply H 150 mA; series supply L 450 mA; series supply P 300 mA; series supply U 100 mA; series supply X 600 mA; series supply The use of letters A (4 V), B(180 mA), C (200 mA), F (12.6 V), K (2 V), V (50 mA) and Y (450 mA) has been discontinued.	A diode (excluding rectifiers) B double diode with common cathode (excluding rectifiers) C triode (excluding power output triodes) D power output triode E tetrode (excluding power output tetrodes) F pentode (excluding power output pentodes) L power output tetrode or power output pentode H hexode or heptode (of the hexode type) K octode or heptode (of the octode type) M tuning indicator Y half-wave rectifier Z full-wave rectifier	The serial number consists of three figures the first figure indicating the type of base <sup>1</sup> ):  1 miscellaneous base types 2 miniature 10-pin base 3 octal base 5 magnoval base 8 noval base 9 miniature 7-pin base The last figure of tetrodes and pentodes (excluding power output tubes) indicates the type of characteristic, as follows: even figure: sharp cutoff characteristic odd figure: variable-mu characteristic			

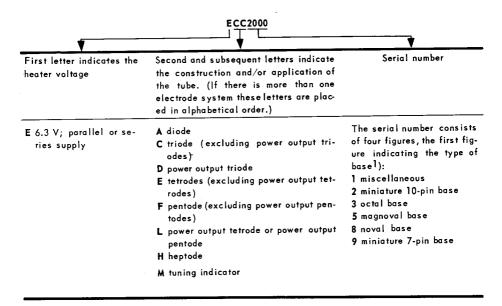
<sup>1)</sup> The use of remaining figures for other base types and the use of serial numbers of one and two figures has been discontinued.

# TYPE DESIGNATION CODE FOR PROFESSIONAL RECEIVING-TYPE TUBES

This type designation code relates to professional receiving-type vacuum tubes designed for use primarily in communication equipment, data processing equipment or in other industrial applications.

The type designation consists of:

TWO OR MORE LETTERS FOLLOWED BY A SERIAL NUMBER



<sup>1)</sup> Serial numbers for prototypes always end in zero, those for variants in one of the figures 1 to 9.

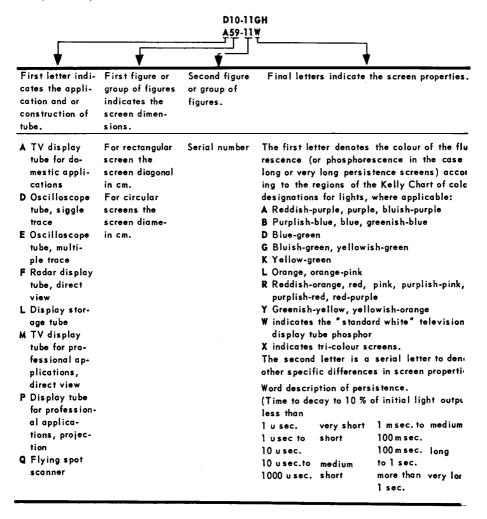
The other first figures will be used for new base types as required.

#### TYPE DESIGNATION CODE FOR CATHODE-RAY TUBES

This type designation code relates to cathode-ray tubes for all applications such as: television and radar display tubes, oscilloscope tubes, monitor tubes and view finders.

The type designation consists of:

ONE LETTER FOLLOWED BY TWO GROUPS OF FIGURES JOINED BY A HYPHEN, AND ONE OF TWO LETTERS



# GROUPS OF LETTERS ALLOCATED TO EXISTING PHOSPHORS

Designation EIA			Colour		Persistence
New	Olq	number	Fluorescence	Phos phores cence	(10 %)
BA	c		purplish blue		very short
вС	٧		purplish blue		
ВD	A		blue		very short
ΒE	В	PII	blue	blue	medium short
ВF	U		blue		medium short
GB	м	P32	purplish blue	yellowish green	long
GE	κ	P24	green	green	short
GH	н	P31	green	green	medium short
GJ	G	Ρl	yellowish green	yellowish green	medium
GΚ	G <sup>1</sup> )		yellowish green	yellowish green	medium
GL	N	P2	yellowish green	yellowish green	medium short
GM	Р	P7	purplish blue	yellowish green	long
GN	J		blue	green	2)
GP			bluish green/green	green	medium short
LA	D		orange	orange	medium
LB	E		orange	orange	long
LC	F		orange	orange	very long
LD	L	P33	orange	orange	very long
RA		i	reddish orange		medium
YA	Y		yellowish orange	yellowish orange	medium
W	w		white for TV display tubes		
х	x		three-colour for TV display tubes		

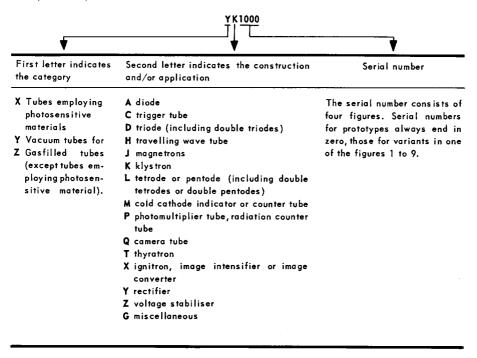
<sup>1)</sup> Used for colour TV.
2) Depends on external stimulation.

# TYPE DESIGNATION CODE FOR PROFESSIONAL TUBES

This type designation code relates to tubes designed for use primarily in radio or television transmitting equipment, in navigation or communication equipment or in other industrial applications.

The type designation consists of:

#### TWO LETTERS FOLLOWED BY A SERIAL NUMBER



#### CATHODE-RAY TUBES (Old system)

The type number consists of two capital letters followed by two sets of figures (e.g. DG13-2, MW31-16).

First letter:

indicates the method of focusing and deflection.

Second letter:

indicates properties of the screen.

First group of figures:

indicates dimensions of the screen.

Second group of figures: indicates a serial number.

The key to this system is given in the following tables.

## First letter

A - Electrostatic focusing and electromagnetic deflection.

D - Electrostatic focusing and electrostatic deflection in two directions.

M - Electromagnetic focusing and electromagnetic deflection.

#### Second letter

Indicates the phosphor screen properties.

## First group of figures

For round tubes:

screen diameter in cm

For rectangular tubes: screen diagonal in cm

# Second group in figures

Serial number

#### TRANSMITTING TUBES (Old system)

The type number consists of two or three capital letters followed by two sets of figures. For some types a group of letters is added (e.g. TAL12/10, DCG4/1000G).

First letter: indicates the tube classification.

Second letter: indicates type of filament or cathode.

First group of figures: indicates operating voltage.

Second group of figures: indicates power.

Added letters: indicate the tube base.

The key to this system is given in the following tables.

#### First letter

- D Rectifying tube (included grid-controlled tubes)
- M Triode (A.F. amplifying tube or modulator)
- P Pentode
- Q Tetrode
- T Triode (R.F., A.F. or oscillator tube)

For tubes having dual systems two of the above mentioned letters are used (e.g. QQC04/15).

# Second letter (third letter fot tubes having dual systems)

- A Directly-heated tungsten filament
- B Directly-heated thoriated tungsten filament
- C Directly-heated oxide-coated filament
- E indirectly-heated oxide-coated cathode

#### Third letter (fourth letter for tubes having dual systems)

- G Mercury-vapour filling
- H Helix or other integral cooler
- L Forced air cooling
- W Water cooling
- X Xenon filling

When the type number does not contain a letter indicating the cooling, the tube is radiation-cooled.

## First group of figures

Rectifying tubes: Approx D.C. output voltage in kilovolts in a three-phase half-wave rec-

tifying circuit.

Transmitting tubes: Approx. max. anode voltage in kilovolts.

# Second group of figures

Rectifying tubes: Approx. D.C. output power in watts or kilowatts per tube in a three-

phase half-wave rectifying circuit.

R.F. tubes: Approx. output power in watts or kilowatts in class C telegraphy.

Modulators: Approx. anode dissipation in watts or kilowatts.

#### Added letters

B - Cables

E - Medium 7p-base

ED - Edison base

EG - Goliath base

G - Medium 4p-base

GB - Jumbo 4p-base

GS - Super jumbo 4p-base

N - Medium 5p-base

P - P-base

## PHOTOTUBES AND PHOTOMULTIPLIERS (old system)

The type number consists of two figures followed by two letters (e.g. 90AV).

First figure: indicates the tube base
Second figure: indicates a serial number
First letter: indicates the type of cathode
Second letter: indicates the class of phototube
Third letter: letter P only for photomulitpliers.

The key for this system is given in the following tables.

## First figure

- 2 Loctal 8p-base
- 3 Octal 8p-base
- 5 Special base
- 8 Noval 9p-base
- 9 Miniature 7p-base.

#### Second figure - Serial number

#### First letter

- A Caesium-antimony cathode (blue sensitive)
- C Caesium-on-oxidized-silver cathode (red sensitive)
- U Caesium-antimony cathode with quartz window
- T Tialkali cathode.

## Second letter

- G Gasfilled
- V High vacuum

# VOLTAGE STABILIZERS (old system)

The type number consists of a number followed by a capital letter, a figure and in some cases by a second capital letter (e.g. 85A2, 150C1K).

Number:

indicates burning voltage

First letter:

indicates the current range

Figure:

indicates a serial number

Second letter: indicates the tube base.

The key for this system is given in the following tables.

#### Number

Average burning voltage in volts.

#### First letter

A - max. 10 mA

B - max. 22 mA

C - max. 40 mA

D - max, 100 mA

E - max. 200 mA

# Figure

Serial number

## Second letter

E - Edison

K - Octal 8p-base

P - P-base