

~~CONFIDENTIAL DATA SHEET~~
MAINTENANCE TYPE ONLY

*** DIGITRONS -12 Character Side-Viewing
Cold-Cathode Letter Tubes**

**GR 12 G
GR 12 H**

GR12G Tube contains the letters A to L inclusive

GR12H Tube contains the letters L to X excluding P and Q
but additionally including E.

Limit Ratings

Maximum cathode current:-

Letter I	5 mA
Letters L and T	5.5 mA
Letters J and F	7.5 mA
Remaining letters	9.0 mA

Minimum voltage necessary to ensure breakdown 220V

Characteristics

Nominal running voltage:-

Letter I at 4.5 mA	170V
Letters L and T at 5.0 mA	175V
Letters J and F at 6.25 mA	185V
Remaining letters at 7.5 mA	175V

A cathode left floating will assume some potential
between that of the anode and the glowing cathode.

It should be noted that non-glowing cathodes must not
be returned to a bias rail, but should be left
disconnected.

Recommended Operating Conditions

D.C. operation

Anode Supply Voltage - $R_a = 10k\Omega$ 250V

A.C. operation

(Unsmoothed half-wave rectified 50 c.p.s. A.C.)

Anode Supply Voltage - $R_a = 12k\Omega$ 200-220V r.m.s.
 $R_a = 18k\Omega$ 220-250V r.m.s.

Cathode equalizing resistors ($V_a = 250V$ only).

Letter I	8.2k Ω
Letters L and T	4.7k Ω



TENTATIVE DATA SHEET
MAINTENANCE TYPE ONLY

GR 12 G
GR 12 H

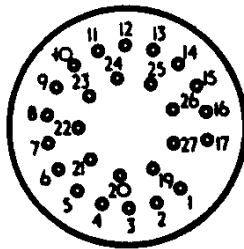
DIGITRONS - 12 Character Side-Viewing
Cold-Cathode Letter Tubes

Mechanical Data

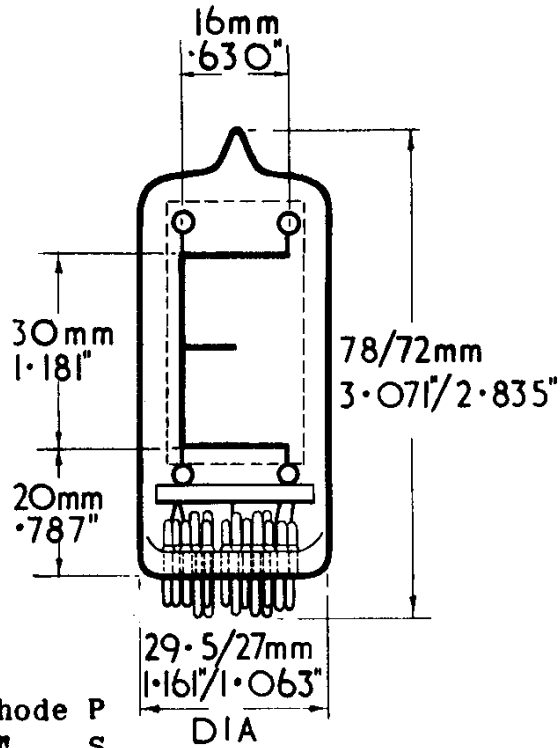
Mounting Position
 Base
 Socket

Any
 B26A
 B17, B26A or B27A

Base Connections
 (Underside view)



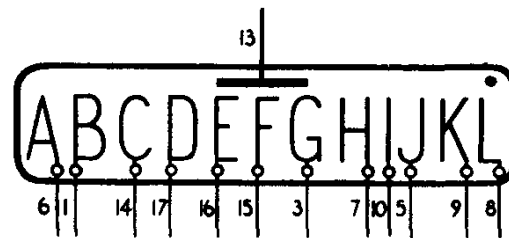
↑
FRONT



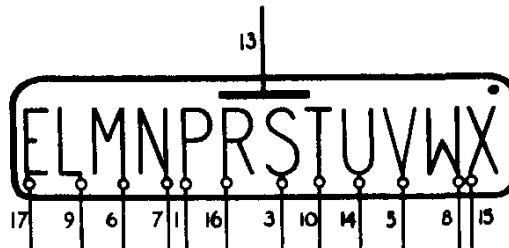
G12G

GR12H

Pin	1	Cathode	B	Pin	1	Cathode	P
	3	"	G		3	"	S
	5	"	J		5	"	V
	6	"	A		6	"	M
	7	"	H		7	"	N
	8	"	L		8	"	W
	9	"	K		9	"	L
	10	"	I		10	"	T
	13	Anode			13	Anode	
	14	Cathode	C		14	Cathode	U
	15	"	F		15	"	X
	16	"	E		16	"	R
	17	"	D		17	"	E



GR 12 G



GR 12 H

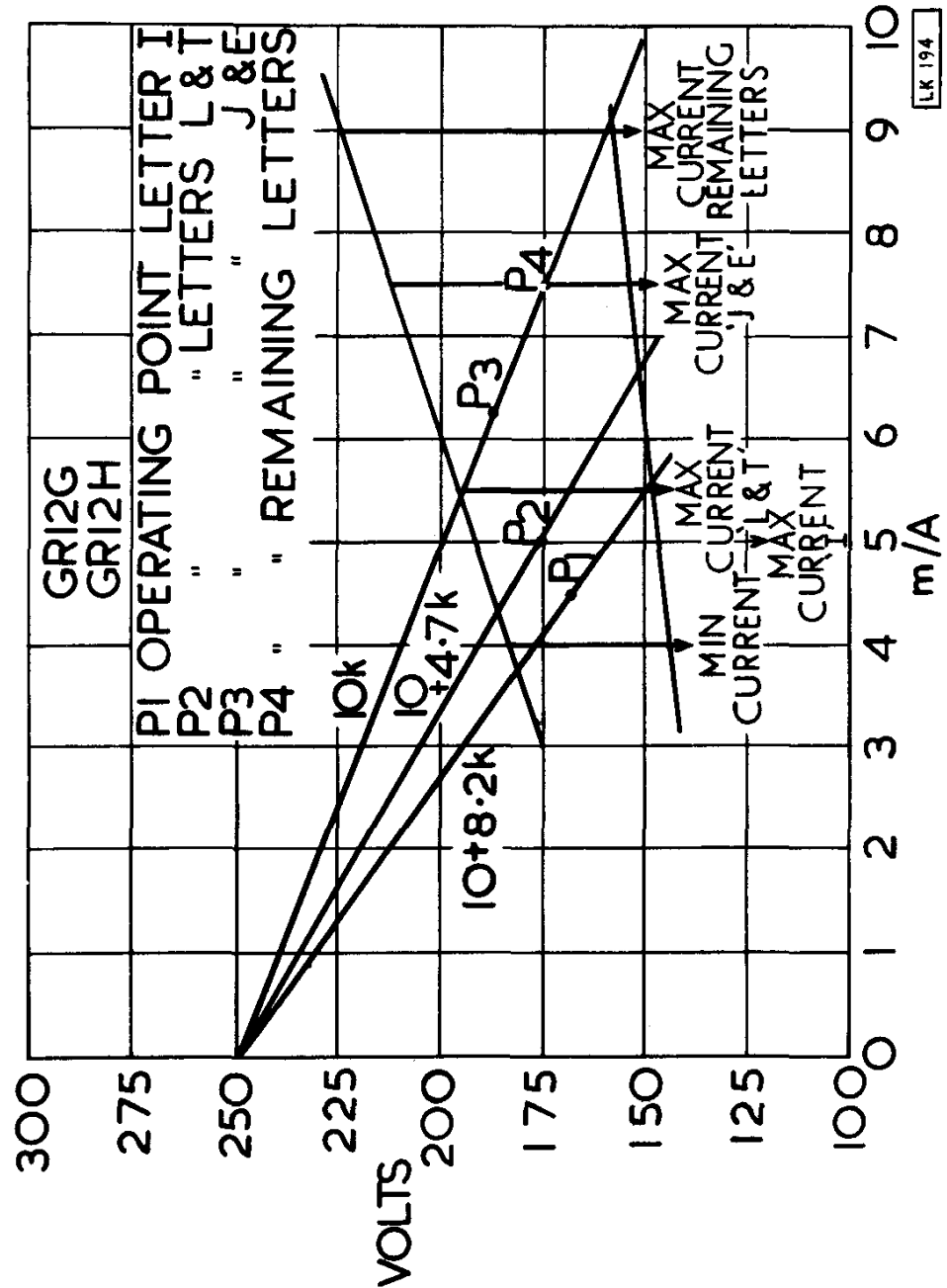
Note: Pins 2, 4, 11 and 12 must be left unconnected.



MAINTENANCE TYPE ONLY

* DIGITRONS -12 Character Side-Viewing
Cold-Cathode Letter Tubes

GR 12 G
GR 12 H



Operating Characteristics

* Registered Trade Mark

