*DIGITRON - Long Life 10 Digit End-Viewing Cold-Cathode Numerical Register Tube

GR 10 K (CV.5842)

Limit Ratings

Maximum cathode	current	1.8 mA
Minimum voltage	to ensure breakdown	150 V

Characteristics

Nominal running voltage at 1.4 mA 140 V A cathode left floating will assume some potential between that of the anode and the glowing cathode.

Recommended Operating Conditions

Under the recommended d.c. operating conditions with the cathodes switched sequentially every	1	
24 hours, an average life of 10,000 hours can		
be expected.		
D.C. operation		
Anode supply voltage Ra = $82k\Omega$	250 V	
$Ra = 47k\Omega$	200 V	
A.C. operation		
(Unsmoothed half-wave rectified 50 c.p.s. a.c.)		
Anode supply voltage - Ra = 82k 200-220V	r.m.s.	
Ra = 120k 220-250V	r. m. s.	

Filters

For many applications the use of a light filter may be advantageous. 'Circular polarized' filters (Type HNCP, supplied by Polarizers (U.K.) Ltd., 28, Stamford Street, London, S.E. 1) eliminate reflected light and improve contrast. Coloured filters of glass, Perspex or Gelatine can also be used to advantage, amber or red tinted filters making Long Life Digitrons appear identical with other Digitrons.

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Mechanical Data

Mounting position Base Socket	Any B17A B17A
Base Connections (underside view) CENTRE LINE OF CHARACTERS	324mm 1-276 * MAX. DIA. 33mm 1·299 MAX.
Pin 1 Cathode 3 2 Cathode 9 4 Cathode 0 5 Cathode 7 6 Cathode 8 10 Cathode 6 11 Cathode 5 12 Anode 13 Cathode 1 14 Cathode 2	12mm -472
15 Cathode 4 Note: All other pins are to be left unconnected.	1234567890 1314 1115 11110 51 61 21 4



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Operating Characteristics

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