

Cathode Indirectly heated

Heater Vh 6.3 V
Ih 0.5 A

Limit Ratings

Maximum heater to cathode voltage	± 150 V
Maximum spade to cathode voltage (V_S max.)	125 V
Minimum spade to cathode voltage (V_S min.)	85 V ←
Minimum target to cathode voltage (V_T min.)	50 V
Maximum target to cathode voltage (V_T max.)	300 V
Minimum switching-grid to cathode voltage (V_{SG} min.)	$V_S = 125$ V ←
	$V_S = 85$ V ←
Minimum input duration	0.5 μ S

Characteristics ($V_S = 108$ V, $R_S = 100$ k Ω)

Holding spade current	1.2 mA nom. ←
Target current	10.0 mA nom. ←

Recommended Operating Conditions (for counting up to 1 Mc/S)

V_S	108 V ←
R_S	100 k Ω $\pm 10\%$

(Each spade must be connected to a separate load resistor with not more than $\frac{1}{2}$ " (10 mm) of connecting lead).

V_T	108 V ←
R_T	4.7 k Ω

(Any number of target connections may be taken to a common target resistor).

Recommended Operating Conditions (for counting up to 1 Mc/S) *cont.*

$V_{SG} = \frac{V_s}{2}$	54 V ←
V_{SG} pulse amplitude	— 54 V ←
t pulse	0.5 μ S
R_{SG}	22 k Ω ←
C input	330 pF ←

Alternatively d.c. coupling may be used as shown in circuit LK. 125

* *Note :-* The spade resistance is the total resistance, including resistors for beam formation etc.

Mechanical Data

Mounting position Any: providing that the tube is kept at least 2" from any magnetic material or 4" from a similar tube, a strong magnet or a mu-metal screen.

Weight 185 g

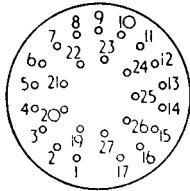
Base B26A

N.B. ← Indicates a change from previous data sheets.



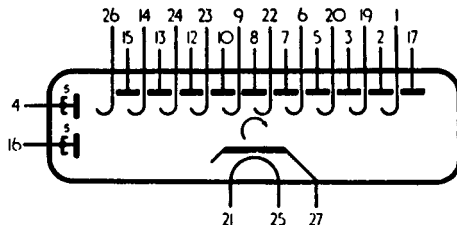
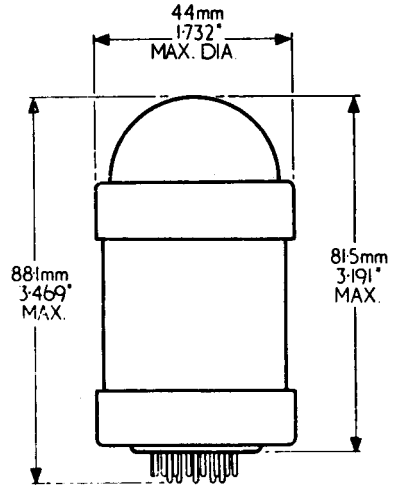
Mechanical Data—cont.

Base Connections
(underside view)



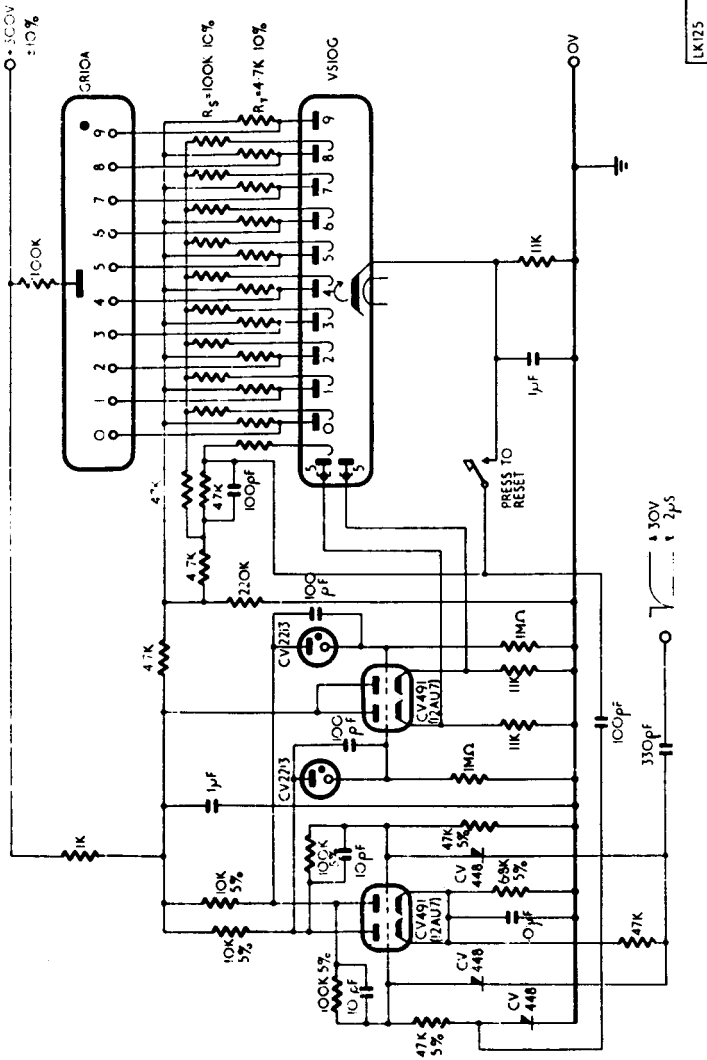
- Pin 1 Spade 0
- 2 Target 9
- 3 Target 8
- 4 Odd Switching grids
- 5 Target 7
- 6 Spade 7
- 7 Target 6
- 8 Target 5
- 9 Spade 5
- 10 Target 4
- 11 Do not connect
- 12 Target 3
- 13 Target 2
- 14 Spade 2
- 15 Target 1
- 16 Even switching grids
- 17 Target 0

- 19 Spade 9
- 20 Spade 8
- 21 Heater
- 22 Spade 6
- 23 Spade 4
- 24 Spade 3
- 25 Heater
- 26 Spade 1
- 27 Cathode



VS10G

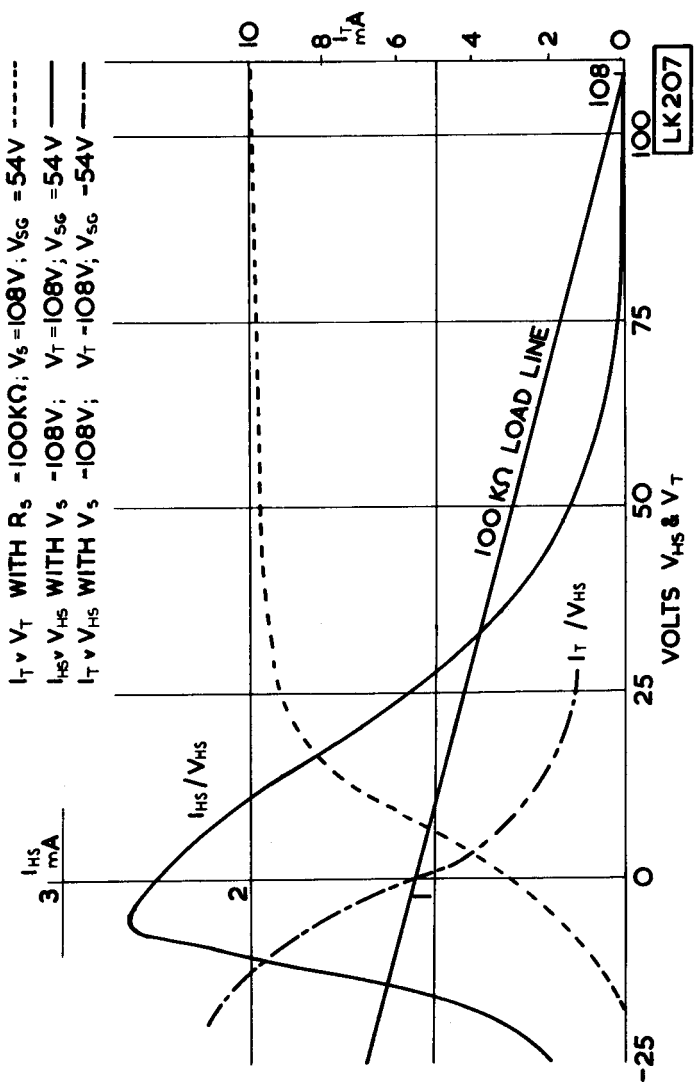
TROCHOTRON, 10-way Beam Switching Tube



LSK125

1 Mc/S Trochotron Decade Counter with GR10A Register Tube readout





VS10G Holding Spade and Target Characteristics



