

**Low Voltage 10-way Trochotron
Beam Switching Tube**

VS10K

Cathode Indirectly heated

Heater Vh 6.3 V
lh 0.5 A

Limit Ratings

Maximum heater to cathode voltage	± 75 V
Maximum spade to cathode voltage (V_S max.)	32 V
Minimum spade to cathode voltage (V_S min.)	28 V
Maximum target to cathode voltage (V_T max.)	150 V
Minimum target to cathode voltage (V_T min.)	14 V
Minimum switching-grid to cathode voltage (V_{SG} min.)	15 V
Minimum spade resistor $V_S = 28$ V	100 k Ω
Maximum spade resistor $V_S = 28$ V	150 k Ω

Characteristics ($V_S = 30$ V, $R_S = 150$ k Ω)

Holding spade current	400 μ A nom.
Target current	1.7 mA nom.

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

V_S	30 V
R_S	150 k Ω ± 10%

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

V_T	30 V
R_T	6.8 k Ω

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

V_{SG}	15 V
V_{SG} pulse amplitude	- 17 V
t pulse	0.5 μ S
R_{SG}	47 k Ω
C input coupling	330 pF



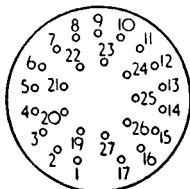
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Mechanical Data

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	220 g
Base	B26A
Sockets	B26A or B27A

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

