

Low Voltage 10-way Trochotron Beam Switching Tube

VS10K

Cathode Indirectly heated

Heater	Vh	6.3 V
	Ih	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 $\Omega \pm 10\%$

(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

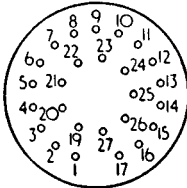
Base

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 |

