

High Current 10-way Trochotron Beam Switching Tube

VS 10H
(VX.9210)

Cathode Indirectly heated

Heater	V _h	6.3 V
	I _h	0.55 V

Limit Ratings

Maximum heater to cathode voltage ± 150 V

Maximum spade to cathode voltage (V_s max.) $+ 145$ V

Minimum spade to cathode voltage (V_s min.) $+ 80$ 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 = 140 V	75 V
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125 V	55 V
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80 V	45 V
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Minimum spade resistor (R_s min.)

V _s = 140 V	56 kΩ
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125 V	68 kΩ
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80 V	82 kΩ
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Maximum spade resistor (R_s max.)

V _s = 140 V	150 kΩ
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125 V	175 kΩ
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80 V	270 kΩ
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Minimum resolution time (for groups of pulses not exceeding nine in number) 250 nS

Maximum switching speed (for regular spaced pulses) 2 Mc/S

Characteristics

Holding spade current 1.0 mA nom.

Target spade current $V_s = 140$ V 18.0 mA nom.

125 V	10.0 mA nom.
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80 V	6.5 mA nom.
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Switching grid current on switching

V _s = 140 V	2.0 mA nom.
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125 V	1.0 mA nom.
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80 V	0.2 mA nom.
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Recommended Operating Conditions for 1 Mc/S Operation

V_S	125 V
R_S	100 k Ω

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

V_T	125 V
R_T	4.7 k Ω

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

Minimum pulse—duration	0.25 μ S
Minimum pulse—amplitude	—($V_{SG} + 5$) V

For 2 Mc/S Operation

V_S	125 V
R_S	82 k Ω

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

V_T	125 V
R_T	4.7 k Ω

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

Minimum pulse—duration	0.25 μ S
Minimum pulse—amplitude	—($V_{SG} + 5$) V



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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

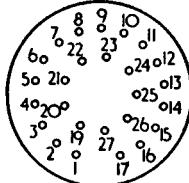
Base

B26A

Sockets

B26A or B27A

Base Connections (underside view)



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|-----|----|----------------------|
| 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 |

