

High Current 10-way Trochotron Beam Switching Tube

VS10H
(VX.9210)

Cathode	Indirectly heated	
Heater	Vh	6.3 V
	lh	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
	125 V	55 V
	80 V	45 V
Minimum spade resistor (R_S min.)		
	$V_S = 140$ V	56 k Ω
	125 V	68 k Ω
	80 V	82 k Ω
Maximum spade resistor (R_S max.)		
	$V_S = 140$ V	150 k Ω
	125 V	175 k Ω
	80 V	270 k Ω
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.
	80 V	6.5 mA nom.
Switching grid current on switching		
	$V_S = 140$ V	2.0 mA nom.
	125 V	1.0 mA nom.
	80 V	0.2 mA nom.



VS10H
(VX.9210)

**High Current 10-way Trochotron
Beam Switching Tube**

**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



High Current 10-way Trochotron Beam Switching Tube

VS10H
(VX.9210)

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

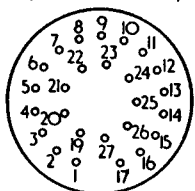
Base

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 |

