engineering data service

6910

MECHANICAL DATA

Bulb
Base ¹ Modified Duodecal
Outline See Drawing
Basing See Drawing
Output Cathodes No. 0 thru 9
Zero Position No. 0 Cathode Aligned
with Pin No. 12 \pm 10°
Mounting Position

ELECTRICAL DATA

INTERELECTRODE CAPACITANCES (Approx.)

Any Cathode to All Other Elements						4.2 pf
Guide No. 2 to All Other Elements						10 pf
Guide No. 1 to All Other Elements						11 pf

RATINGS (Absolute Values)

	Min.	Max.
Anode Supply Voltage ²	400	800 Volts
Voltage Between Electrodes		
(Other than Anode)		140 Volts
Transfer Voltage	35	140 Volts
Anode Current	0.6	0.8 M a
Input Frequency	0	100 Kpps
Ambient Temperature	-55	100 Kpps +60 °C

TYPICAL OPERATING CHARACTERISTICS

Nominal Tube Drop	Anode Supply Voltage ²	400 Volts
Square Double Pulse Drive Amplitude $(Each Pulse)^3$ -85 VoltsMin.Square Double Pulse Width $(Each Pulse)^3$ 4 μ Sec.Min.Forced Reset Pulse Amplitude-120 VoltsMin.Forced Reset Pulse Width4 μ Sec.Min.	Nominal Tube Drop	235 Volts
(Each Pulse) ³		+45 Volts Min.
Square Double Pulse Width $(Each Pulse)^3$	Square Double Pulse Drive Amplitude	
Forced Reset Pulse Amplitude120 Volts Min. Forced Reset Pulse Width 4 µSec. Min.		
Forced Reset Pulse Width 4 µSec. Min.	Square Double Pulse Width (Each Pulse) 3	4 μ Sec. Min.
	Forced Reset Pulse Amplitude	-120 Volts Min.
Cathode Load Resistor ⁴ 50 K-Ohms Max.	Forced Reset Pulse Width	4 μSec. Min.
	Cathode Load Resistor ⁴	50 K-Ohms Max.

NOTES:

- 1. Sockets are available from Sylvania Electric Products Inc., 1035 Westminster, Williamsport, Pennsylvania. (Part No. 7460-0008)
- 2. A value for the anode resistor can be computed by subtracting the nominal tube drop from the supply voltage and dividing the remainder by the desired operating current.
- 3. Two separate pulses, back to back or with slight overlap, must be maintained.
- 4. The peak pulse output voltage can be determined by the IR drop across the chosen cathode resistor.
- 5. A counter tube brochure is available on request from Sylvania Electric Products Inc., 1100 Main Street, Buffalo 9, New York.

QUICK REFERENCE DATA

The Type 6910 is a cold cathode, bidirectional decade counter tube with top viewed readout. It is designed to operate at inputs up to 100,000 pulses per second. All 10 cathodes are brought out to individual base pins. Applications include computing, scaling, counting, frequency dividing, coding, modulating, matrixing, indexing, multiplexing, addition and subtraction. (See Note 5.)



SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products Inc.

RECEIVING TUBE OPERATIONS

EMPORIUM, PA.

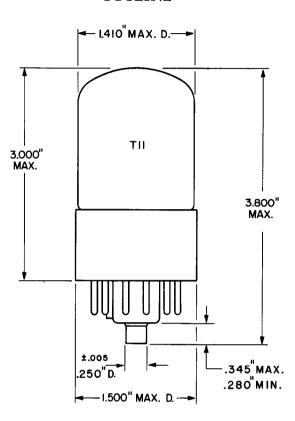
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DECEMBER, 1963

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File Under
SPECIAL PURPOSE
ELECTRONIC TUBES

OUTLINE



BASE CONNECTIONS

