



ELECTRONIC TUBE REFERENCE

6909

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

COUNTERSELECTORSWITCH

Cold-cathode decimal counting and selector tube that advances a glow discharge among numbered cathodes in response to guide-electrode pulses.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 CounterSelectorSwitch	
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM CATHODE CURRENT	1.2 mA
MAXIMUM REGULATOR CURRENT	0.8 mA
<i>Published maximum ratings and typical characteristics promoted from the approved source; identical repeated sections compressed where applicable.</i>	

Cold-cathode decimal counting/selector tube rated for high pulse repetition.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON

Section 1 · CounterSelectorSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	400 V	—
Maximum Cathode Current	1.2 mA	—
InputFrequencyMaximum	100000 Hz	—
TypicalDCSupplyVoltage	450 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NominalTubeDrop	235 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · CounterSelectorSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage maximum	800 V	—
Input frequency maximum	100 kpps	—



1965 Sylvania Electronic Tubes Vol3

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 SYLVANIA ELECTRONIC TUBES VOL3
Section 1 · CounterSelectorSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage minimum	400 V	—
Anode supply voltage maximum	800 V	—
Anode current	0.8 mA	—
Pulse repetition maximum	100 kpps	Pulse
Typical anode supply voltage	400 V	—
Nominal tube drop	235 V	—
Guide bias minimum	45 V	—
Square pulse drive amplitude minimum	-85 V	Pulse
Square double-pulse width minimum	4 us	Pulse
Forced reset pulse amplitude minimum	-120 V	Pulse
Forced reset pulse width minimum	4 us	Pulse
Cathode load resistance maximum	50 kohm	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transfer voltage	140 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Decimal pulse counter / selector	—