



ELECTRONIC TUBE REFERENCE

ZM1080T

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Red-filtered cold-cathode decimal Nixie displaying digits 0–9 with decimal points on both sides for measuring and counting instruments.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Wire-leaded	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 Nixie	
MAXIMUM REGULATOR CURRENT	3.5 A
STARTING VOLTAGE	170 V
Single cold-cathode Nixie indicator section; Czech datasheet electrical values are retained in the parameter table.	

Gas-filled cold-cathode Nixie decimal indicator for digits 0 through 9 with decimal points on both sides of the digit. ZM1080T is the red-filtered version for measuring and counting instruments.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1977 Nixie Tesla

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

1977 NIXIE TESLA

Section 1 · Nixie

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	170 V	Published minimum starting requirement
Burning voltage	131–155 V	Published range
Decimal-point ignition voltage	115— V	Published minimum
Display format	10 digits + left/right decimal points	Direct glow decimal display

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating anode current	2 mA	Published static operating point
Series resistor	15 k0hm	Published static operating point
DC supply voltage	200–300 V	Published examples 200, 250, 300 V
Series resistor at 200 V	33 k0hm	Published example
Series resistor at 250 V	56 k0hm	Published example
Series resistor at 300 V	82 k0hm	Published example
Pulse cathode current	—3.5 mA	Pulse duration <20 ms
Peak cathode current	—12 mA	Pulse duration >100 us
Decimal-point current	—0.6 mA	Each decimal point
Off-cathode voltage	—60 V	Published limit
Ambient temperature	-50–70 degC	Published range

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

