ELECTRONIC TUBE REFERENCE

ZM1138R

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Cold-cathode Nixie indicator cross-referenced to RFT Z5730M, a right-oriented display variant in the ZM113x family.

General characteristics

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

Section ratings

SECTION1 Nixie	
MINIMUM REGULATOR CURRENT	1.5 A
MAXIMUM REGULATOR CURRENT	2.5 A
STARTING VOLTAGE	150 V
MAINTAINING VOLTAGE	140 V

Cold-cathode display section; promoted starting/maintaining voltages and current range are published for comparable RFT type Z5730M. Comparable RFT mapping: Z5730M; values are comparison-catalog data, not asserted identical original ratings.

ZM1138R is a cold-cathode Nixie indicator listed in the supplied German comparison catalog as comparable to RFT type Z5730M. The referenced RFT table publishes a striking value of 150 V, a maintaining/glow value of 140 V, an extinction value of 120 V, along with cathode-current, display, environmental, and mechanical data. The catalog explicitly cautions that comparable tubes are not necessarily identical, so these mapped RFT values are retained as comparison data rather than asserted as exact original-manufacturer ratings.

SOURCE OPERATING CONDITIONS

1971 Nixie RFT

SOURCE PDF

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

1971 NIXIE RFT

Section 1 · Nixie

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Comparable RFT Type	**Z5730M**	Catalog cross-reference; comparable types are not guaranteed identical; ComparableRFT=Z5730M
Minimum Operating Supply Voltage	**170 V**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Cathode Current Minimum	**1.5 mA**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Cathode Current Maximum	**2.5 mA**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Peak Cathode Current	**12 mA**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Ambient Temperature Minimum	**-50 °C**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Ambient Temperature Maximum	**70 °C**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Displayed Symbols	**0 to 9; decimal point right; +**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Reading Direction	**side**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Symbol Height	**13 mm**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Viewing Distance	**8 m**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Mounting Orientation	**Wire 7 facing front**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Maximum Bulb Height	**47.6 mm**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Maximum Bulb Diameter	**19 mm**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Striking Voltage	**150 V**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Anode Maintaining Voltage	**140 V**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M
Anode Extinction Voltage	**120 V**	Published for comparable RFT type Z5730M; ComparableRFT=Z5730M

Tube Tinker

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