



ELECTRONIC TUBE REFERENCE

B7037

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Gas-filled cold-cathode Nixie numerical indicator designed to display decimal digits by selective glow discharge of shaped cathodes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	17-35	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 CATHODE CURRENT	7.5 mA
STARTING VOLTAGE	150 V
MAINTAINING VOLTAGE	140 V
<i>Special-purpose display/switching section. Published non-promoted ratings are retained in TUBE_SECTION_PARAMETER.</i>	

B7037 is a cold-cathode numeric or character indicator tube listed in the supplied German comparison catalog as comparable to RFT type Z5680M. The catalog provides electrical and mechanical data for that RFT type, including anode striking, maintaining, and operating limits. The source cautions that comparable types are not necessarily electrically identical, so the mapped RFT values are retained as comparison data rather than asserted as exact original-manufacturer ratings.



SOURCE OPERATING CONDITIONS

1963 Burroughs

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

1963 BURROUGHS

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization Voltage	200 V	—
Supply Voltage	200 V	—
Peak Cathode Current	7.5 mA	—
Typical Supply Voltage	200 V	—
Series Resistance	9100 ohm	—
Cathode Current Minimum	4 mA	—
Cathode Current Maximum	7 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Nixie RFT

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	Z5680M	Catalog cross-reference; comparable types are not guaranteed identical
Minimum Operating Supply Voltage	200 V	Published for comparable RFT type Z5680M
Cathode Current Minimum	4 mA	Published for comparable RFT type Z5680M
Cathode Current Maximum	7 mA	Published for comparable RFT type Z5680M

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Cathode Current	25 mA	Published for comparable RFT type Z5680M
Ambient Temperature Minimum	-10 °C	Published for comparable RFT type Z5680M
Ambient Temperature Maximum	50 °C	Published for comparable RFT type Z5680M
Maximum Bulb Height	100 mm	Published for comparable RFT type Z5680M
Maximum Bulb Diameter	50 mm	Published for comparable RFT type Z5680M

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Striking Voltage	150 V	Published for comparable RFT type Z5680M
Anode Maintaining Voltage	140 V	Published for comparable RFT type Z5680M
Anode Extinction Voltage	120 V	Published for comparable RFT type Z5680M

TUBE TINKER

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