



ELECTRONIC TUBE REFERENCE

LC631

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Cold-cathode numeric or character indicator cross-referenced to RFT Z566M. The comparison catalog supplies striking, maintaining, extinction, current, and mechanical data for the RFT type while warning that comparable tubes are not necessarily identical.

GENERAL CHARACTERISTICS

BASE DESIGNATION	13-17 TGL 68-87	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	6 mA
MINIMUM REGULATOR CURRENT	3 A
MAXIMUM REGULATOR CURRENT	6 A
STARTING VOLTAGE	150 V
MAINTAINING VOLTAGE	140 V
<i>Cold-cathode display section; promoted starting/maintaining voltages and current range are published for comparable RFT type Z566M.</i>	

LC631 is a cold-cathode numeric or character indicator tube listed in the supplied German comparison catalog as comparable to RFT type Z566M. The catalog publishes 150 V anode striking, 140 V maintaining, 120 V extinction, a 3–6 mA cathode-current range, and associated display and mechanical data for that RFT type. The source 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

[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	Z566M	Catalog cross-reference; comparable types are not guaranteed identical
Minimum Operating Supply Voltage	170 V	Published for comparable RFT type Z566M
Cathode Current Minimum	3 mA	Published for comparable RFT type Z566M
Cathode Current Maximum	6 mA	Published for comparable RFT type Z566M
Peak Cathode Current	20 mA	Published for comparable RFT type Z566M
Ambient Temperature Minimum	-10 °C	Published for comparable RFT type Z566M
Ambient Temperature Maximum	50 °C	Published for comparable RFT type Z566M
Displayed Symbols	0 to 9	Published for comparable RFT type Z566M
Reading Direction	side	Published for comparable RFT type Z566M
Symbol Height	30 mm	Published for comparable RFT type Z566M
Maximum Viewing Distance	18 m	Published for comparable RFT type Z566M
Mounting Orientation	Pin 8 facing front	Published for comparable RFT type Z566M
Maximum Bulb Height	62 mm	Published for comparable RFT type Z566M
Maximum Bulb Diameter	29.2 mm	Published for comparable RFT type Z566M

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Striking Voltage	150 V	Published for comparable RFT type Z566M
Anode Maintaining Voltage	140 V	Published for comparable RFT type Z566M
Anode Extinction Voltage	120 V	Published for comparable RFT type Z566M