



ELECTRONIC TUBE REFERENCE

LL551F

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Cold-cathode numeric or character indicator cross-referenced to RFT Z5610M. German comparison data document operating and display characteristics for the RFT type, but the source explicitly warns that listed comparable tubes may differ electrically.

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	2.5 mA
MINIMUM REGULATOR CURRENT	1 A
MAXIMUM REGULATOR CURRENT	2.5 A
STARTING VOLTAGE	145 V
MAINTAINING VOLTAGE	135 V
<i>Cold-cathode display section; promoted starting/maintaining voltages and current range are published for comparable RFT type Z5610M.</i>	

LL551F is a cold-cathode numeric or character indicator tube listed in the supplied German comparison catalog as comparable to RFT type Z5610M. The catalog publishes 145 V anode striking, 135 V maintaining, 120 V extinction, a 1–2.5 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	Z5610M	Catalog cross-reference; comparable types are not guaranteed identical
Minimum Operating Supply Voltage	170 V	Published for comparable RFT type Z5610M
Cathode Current Minimum	1 mA	Published for comparable RFT type Z5610M
Cathode Current Maximum	2.5 mA	Published for comparable RFT type Z5610M
Peak Cathode Current	10 mA	Published for comparable RFT type Z5610M
Ambient Temperature Minimum	-50 °C	Published for comparable RFT type Z5610M
Ambient Temperature Maximum	70 °C	Published for comparable RFT type Z5610M
Displayed Symbols	special symbols/characters	Published for comparable RFT type Z5610M
Reading Direction	front	Published for comparable RFT type Z5610M
Symbol Height	15.5 mm	Published for comparable RFT type Z5610M
Maximum Viewing Distance	10 m	Published for comparable RFT type Z5610M
Mounting Orientation	Pin 8 uppermost	Published for comparable RFT type Z5610M
Maximum Bulb Height	26.5 mm	Published for comparable RFT type Z5610M
Maximum Bulb Diameter	30.1 mm	Published for comparable RFT type Z5610M

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Striking Voltage	145 V	Published for comparable RFT type Z5610M
Anode Maintaining Voltage	135 V	Published for comparable RFT type Z5610M
Anode Extinction Voltage	120 V	Published for comparable RFT type Z5610M

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