



ELECTRONIC TUBE REFERENCE

LC541

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Cold-cathode numeric or character indicator cross-referenced to RFT Z870M. The German comparison catalog documents the RFT type's striking, maintaining, current, and display characteristics while cautioning that listed equivalents are not necessarily electrically identical.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9-12 TGL 11608	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	5 mA
MINIMUM REGULATOR CURRENT	3 A
MAXIMUM REGULATOR CURRENT	5 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 Z870M.</i>	

LC541 is a cold-cathode numeric or character indicator tube listed in the supplied German comparison catalog as comparable to RFT type Z870M. The catalog publishes 150 V anode striking, 140 V maintaining, a 3–5 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	Z870M	Catalog cross-reference; comparable types are not guaranteed identical
Minimum Operating Supply Voltage	170 V	Published for comparable RFT type Z870M
Cathode Current Minimum	3 mA	Published for comparable RFT type Z870M
Cathode Current Maximum	5 mA	Published for comparable RFT type Z870M
Peak Cathode Current	7 mA	Published for comparable RFT type Z870M
Ambient Temperature Minimum	-50 °C	Published for comparable RFT type Z870M
Ambient Temperature Maximum	70 °C	Published for comparable RFT type Z870M
Displayed Symbols	0 to 9; biquinary	Published for comparable RFT type Z870M
Reading Direction	side	Published for comparable RFT type Z870M
Symbol Height	15.5 mm	Published for comparable RFT type Z870M
Maximum Viewing Distance	10 m	Published for comparable RFT type Z870M
Mounting Orientation	Pin 8 facing front	Published for comparable RFT type Z870M
Maximum Bulb Height	49.2 mm	Published for comparable RFT type Z870M
Maximum Bulb Diameter	22.2 mm	Published for comparable RFT type Z870M

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Striking Voltage	150 V	Published for comparable RFT type Z870M
Anode Maintaining Voltage	140 V	Published for comparable RFT type Z870M