

ELECTRONIC TUBE REFERENCE

9QP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Nine-inch lightweight television picture tube designed for small portable receivers, with a low-current heater suitable for series-string operation. General Electric documentation emphasizes compact size and reduced receiver power requirements.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12AD	BASE PINS	12
NOMINAL HEATER	9.4 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12AD - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	–	IC
PIN2	–	P – Plate (Anode)	CONNECTED
PIN3	–	–	IC
PIN4	–	G1 – Control Grid	CONNECTED
PIN5	–	–	IC
PIN6	–	–	IC
PIN7	–	–	IC
PIN8	–	K – Cathode	CONNECTED
PIN9	–	–	IC
PIN10	–	H – Heater	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Cathode Ray

No fixed ratings recorded.

Television picture-tube cathode-ray section; CRT ratings preserved in parameters.

The 9QP4 is a television picture tube designed for small size, light weight, and a low-current heater for series-string operation, particularly suitable for small portable television receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMax	6800 V	CathodeDrive
Grid2VoltageMax	300 V	CathodeDrive
AnodeVoltageTypical	5500 V	CathodeDrive
Grid2VoltageTypical	200 V	CathodeDrive
Heater Current	300 mA	GENERAL
Heater Warm-up time	11 s	GENERAL
Diagonal	70 deg	GENERAL
Horizontal	61 deg	GENERAL
Vertical	49 deg	GENERAL
During Warm-up Period not to Exceed	15 s	MAXIMUM RATINGS
Anode Voltagem	5500 V	MAXIMUM RATINGS
Focusing-Electrode Voltage for Focus	0-400 V	MAXIMUM RATINGS
Focusing-Electrode Current	15-25 uA	MAXIMUM RATINGS
Grid-No 2 Voltage e	200 V	MAXIMUM RATINGS
Cathode to Grid-No 1 Voltage	428-52 V	MAXIMUM RATINGS
Ion-Trap Field Intensity A approximate i	22 G	MAXIMUM RATINGS
less than	3500 V	w Brightness and focus quality decrease with decreasing anod
ASingle-field ion-trap magnet adjusted to optimum position equivalent to	22 mA	w Brightness and focus quality decrease with decreasing anod

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker