ELECTRONIC TUBE REFERENCE

TH73

Specialized - Sensor Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
SENSOR

Indirectly heated subminiature vacuum thermocouple for moderate low-current measurement. Heater current is converted into a small thermoelectric output voltage.

General characteristics

BASE DESIGNATION	SUBMINIATURE	**BASE PINS**	—
NOMINAL HEATER	— / —	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Sensor

No fixed ratings recorded.

Vacuum thermocouple; heater/thermocouple measuring characteristics retained as parameters.

Indirectly heated vacuum thermocouple; TH73 is covered or explicitly cross-referenced on the TH71/TH73/TH75 family sheet. The supplied Philips source was read for heater or filament data, ratings, characteristics, capacitances, and representative operating conditions.

SOURCE OPERATING CONDITIONS

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Sensor

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current range	**0-75 mA**	—
Approximate square-law proportional range	**0-20 mA**	—
Heater current at 12 mV output	**40 mA**	—
Heater resistance	**7 ohm**	—
Thermocouple resistance	**3.5 ohm**	—
Response time	**10 sec**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater current for 1 minute	**100 mA**	—
Maximum heater-to-thermocouple voltage	**100 V**	—

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