



ELECTRONIC TUBE REFERENCE

TH13C

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEXODE-TRIODE

Triode-hexode frequency changer for superheterodyne receivers. The triode supplies local oscillation while the hexode performs mixing, with heater characteristics intended for series-heater equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13 V / 310 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Mullard TH13C oscillator triode, sharing a common cathode with a hexode mixer, in a 13 V / 0.31 A indirectly heated frequency changer for AC/DC heater supplies. Manufacturer gives 13-second heating time and 75 V maximum heater-to-cathode potential. For non-heater electrical specifications Mullard refers specifically to its frequency changer TH4, not the unrelated Philips TH4 thermocouple.

SECTION2 Hexode

No fixed ratings recorded.

Mullard TH13C frequency-converter hexode with common cathode shared by an oscillator triode. Nominal heater 13 V / 0.31 A and heater-to-cathode maximum 75 V. Mullard states non-heater properties are those of its frequency changer TH4; do not substitute data from the separate Philips TH4 thermocouple.

The Mullard TH13C is an indirectly heated triode-hexode frequency changer with a common cathode; its supplied sheet refers to TH4 for the non-heater electrical characteristics.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

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Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	13 V	—
Heater Current	310 mA	—
Heating Time	13 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater-Cathode Voltage	75 V	—

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Section 2 · Hexode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrical Characteristics Reference	TH4 text	SuppliedSheetStatesIdenticalExceptHeaterRating

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