



ELECTRONIC TUBE REFERENCE

TH21C

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

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEXODE-TRIODE

Triode-hexode oscillator-converter for superheterodyne receivers. The triode provides local oscillation while the hexode performs frequency conversion in low-current series-connected heater strings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	21 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Mullard TH21C oscillator triode sharing an indirectly heated common cathode with its hexode mixer. The 21 V / 0.20 A heater is intended for AC/DC receiver heater strings, with heating time about 30 seconds and heater-to-cathode maximum 125 V. Electrical specifications otherwise refer to Mullard TH4 frequency changer, not the unrelated Philips TH4 thermocouple.

SECTION2 Hexode

No fixed ratings recorded.

Mullard TH21C mixer hexode, sharing common cathode with oscillator triode in AC/DC mains superheterodyne receivers. Nominal 21 V / 0.20 A heater; 125 V maximum heater-to-cathode potential. Non-heater electrical specifications are cross-referenced to Mullard TH4 frequency changer and have not been copied from an unrelated TH4 record.

The Mullard TH21C 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	21 V	—
Heater Current	200 mA	—
Heating Time	30 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater-Cathode Voltage	125 V	—

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Section 2 · Hexode

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

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