ELECTRONIC TUBE REFERENCE

A241

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TETRODE

Early directly heated Philips high-vacuum tetrode for battery receivers, designed for low-voltage detector and amplifier service with economical filament operation.

General characteristics

BASE DESIGNATION	Philips 4-pin	**BASE PINS**	4
NOMINAL HEATER	1.85 V / 60 mA	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Tetrode	
PLATE RESISTANCE	4500 Ω
TRANSCONDUCTANCE	0.001 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	20 V

Published ratings and characteristics promoted where semantically applicable; additional values retained as section parameters.

Philips A241 is an early directly heated high-vacuum tetrode for battery receivers. The Dutch datasheet specifies very low filament current, low-voltage operation, and use as detector and amplifier.

SOURCE OPERATING CONDITIONS

1999 Philips 0-D

SOURCE PDF

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

1999 PHILIPS 0-D

Section 1 · Tetrode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage range	1.7–2 V	Published datasheet value
Filament current	60 mA	Published datasheet value
Saturation current	10 mA	Published datasheet value
Maximum quiescent current	——4 mA	Published datasheet value
Amplification factor	4.5	Published datasheet value
Maximum transconductance	——1 mA/V	Published datasheet value
Minimum internal resistance	4500—— Ω	Published datasheet value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage range	2–20 V	Published datasheet value

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