



ELECTRONIC TUBE REFERENCE

A306

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

General-purpose receiving triode for detection, amplification, oscillator, or low-power electronic service as documented by the manufacturer.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Philips 4-pin	BASE PINS	4
NOMINAL HEATER	3 V / 60 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	15000 Ω
TRANSCONDUCTANCE	0.0004 S
AMPLIFICATION FACTOR	6
MAXIMUM PLATE VOLTAGE	100 V
<i>Published ratings and characteristics promoted where semantically applicable; additional values retained as section parameters.</i>	

Philips A306 is an early directly heated high-vacuum triode for battery receivers. The Dutch datasheet specifies very low filament current, low-voltage operation, and use as detector and amplifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage range	2.7–3.3 V	Published datasheet value
Filament current	60 mA	Published datasheet value
Saturation current	10 mA	Published datasheet value
Maximum quiescent current	—6 mA	Published datasheet value
Amplification factor	6	Published datasheet value
Maximum transconductance	—0.4 mA/V	Published datasheet value
Minimum internal resistance	15000— Ω	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage range	20–100 V	Published datasheet value

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