ELECTRONIC TUBE REFERENCE

C509

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

General-purpose directly heated Philips triode with published operating characteristics and limiting ratings for conventional amplifier service.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	4.9 V / 250 mA	**PARALLEL HEATER**	_ / _
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

PLATE RESISTANCE	9000 Ω
TRANSCONDUCTANCE	0.001 S
AMPLIFICATION FACTOR	9
MAXIMUM PLATE VOLTAGE	120 V
MAXIMUM CATHODE CURRENT	10 mA

General-purpose directly heated triode

C509 is a general-purpose directly heated triode. The supplied Philips datasheet was read for heater data, operating characteristics, limiting ratings, and section-level electrical information.

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 · Triode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Saturation current	**50 mA**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum quiescent current	**10 mA**	—

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