



ELECTRONIC TUBE REFERENCE

299

Voltage - Triode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

General-purpose receiving triode for voltage amplification, detection, oscillator, or Class-A service as documented by the manufacturer.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	3.3 V / 63 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	15500 Ω
TRANSCONDUCTANCE	0.000425 S
AMPLIFICATION FACTOR	6.6
MAXIMUM PLATE VOLTAGE	90 V
<i>Published ratings and characteristics promoted from the approved datasheet.</i>	

The 299 is a triode described in the Cunningham Radio Tube Manual for detector, amplifier, oscillator, rectifier, or power-output service as applicable to the type.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1932 Cunningham Radio Tubes

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

1932 CUNNINGHAM RADIO TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-filament capacitance	2.5 pF	Published direct interelectrode capacitance
Plate-filament capacitance	2.5 pF	Published direct interelectrode capacitance



SOURCE OPERATING CONDITIONS

193X Cunningham

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

193X CUNNINGHAM

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	3.3 V	Published nominal
Heater/filament current	63 mA	Published nominal
Transconductance	425 μ S	Published characteristic
Amplification factor	6.6	Published characteristic
Plate resistance	15500 Ω	Published characteristic