



ELECTRONIC TUBE REFERENCE

220

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Directly heated triode for early battery-operated receiving and amplification service. Available source material does not establish a narrower function confidently.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	3.3 V / 132 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	47000 Ω
TRANSCONDUCTANCE	0.000425 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	180 V
Core published characteristics promoted conservatively from the approved manual sheet.	

The 220 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

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	132 mA	Published nominal
Transconductance	425 μ S	Published characteristic
Amplification factor	20	Published characteristic
Plate resistance	47000 Ω m	Published characteristic

TUBE TINKER

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