



ELECTRONIC TUBE REFERENCE

XD55

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Very-high-power triode for high-voltage pulse-modulator and switching service, rated to 180 kV and 130 A cathode current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 350 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	180000 V
MAXIMUM PLATE DISSIPATION	25000 W
MAXIMUM CATHODE CURRENT	173 A
<i>Published ratings and characteristics promoted where directly established; additional values retained as parameters.</i>	

XD55 is a high-power triode designed for high-voltage pulse modulator or switching service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Central Electronics

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

195X CENTRAL ELECTRONICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Current	350 A	Published datasheet value
anode to cathode	25 pF	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	50	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Central Electronic Tubes

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

1960 CENTRAL ELECTRONIC TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	50	—
Heater/filament voltage	10 V	—
Heater/filament current	350 A	—
Estimated tube drop	30 kV	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate/anode voltage	180000 V	—
Maximum plate/anode dissipation	25000 W	—
Peak cathode current	173 A	—
Peak anode current	130 A	—
Average anode current	400 mA	—
Maximum duty factor	0.003	—
Maximum pulse width	12 us	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-cathode capacitance	25 pF	—
Anode-grid capacitance	2 pF	—
Cathode-grid capacitance	300 pF	—

TUBE TINKER

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