



ELECTRONIC TUBE REFERENCE

8461

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Immersion-cooled high-power triode for hard-tube pulse modulators and series-regulator service. Tens-of-kilovolts capability and very high dissipation make it a specialized pulsed switching and high-voltage control device.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	15 V / 200 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	80000 V
MAXIMUM PLATE DISSIPATION	30000 W
MAXIMUM CATHODE CURRENT	750 A
High-power pulse-modulator triode; 30 kW oil-cooled plate dissipation and explicit X-ray warning.	

Immersion-cooled high-power triode for hard-tube pulse-modulator and series-regulator service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PulsePowerOutput	40 MW	Plate 75 kV; Pulse
PulseLengthMaximum	1000 us	—
DutyFactorMaximum	0.01 ratio	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	HardTubePulseModulator_SeriesRegulator text	—