



ELECTRONIC TUBE REFERENCE

7413

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Very-high-power directly heated triode with an exceptionally heavy filament; available source material does not establish a narrower application confidently.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12 V / 309 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	21
MAXIMUM PLATE DISSIPATION	50000 W
MAXIMUM CATHODE CURRENT	150 A
<i>Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters.</i>	

Immersion-cooled hard-tube pulse modulator designed for multi-megawatt peak pulse-power 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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	12 V	Published nominal/representative value
Heater or filament current	309 A	Published nominal/representative value
Amplification factor	21	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	50000 W	Published
Peak pulse power	8 MW	Source headline rating
Peak pulse plate current	150 A	Published
Oil-cooled plate dissipation	14 kW	Published
Water-cooled plate dissipation	50 kW	Published