

ELECTRONIC TUBE REFERENCE

6950

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Water-cooled shielded-grid power triode for plate-pulsed RF amplification in long-range radar and particle accelerators. Published operation reaches roughly 1.5 MW peak output at 200 MHz with very high plate-voltage and dissipation capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.3 V / 1140 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	57
MAXIMUM PLATE VOLTAGE	35000 V
MAXIMUM PLATE DISSIPATION	150000 W
MAXIMUM CATHODE CURRENT	92 A
Published maximum ratings and electrical characteristics promoted from approved source.	

Water-cooled shielded-grid beam triode for plate-pulsed RF power amplification in long-range radar and particle-accelerator service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	7.3 V	Nominal
HeaterCurrentNominal	1140 A	Nominal
Maximum Plate Voltage	35000 V	—
Maximum Plate Dissipation	150000 W	—
Maximum Cathode Current	92 A	—
Maximum Frequency	200 MHz	—
PeakPlateCurrentMaximum	92 A	Pulse

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	57	Typical
UsefulPeakPowerOutput	1500000 W	At 200 MHz