ELECTRONIC TUBE REFERENCE

6383

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

RCA 6383 high-power liquid-cooled coaxial UHF transmitting triode rated 600 W plate dissipation for RF amplification and oscillation to 2 GHz.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	6.3 V / 3.4 A	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	600 W

RCA 6383 liquid-cooled coaxial UHF power triode. Max CCS plate 1500 V, plate dissipation 600 W, plate current 400 mA, grid current 75 mA (derate above 900 MHz), input 600 W, negative grid bias 300 V magnitude. Plate-modulated telephony max 1200 V and dissipation 400 W. Heater nominal 6.3 V 3.4 A, max 6.9 V; high-frequency operation reduces heater voltage. Mu 27, no published gm/rp. Cgp 6 pF, Cgk+heater 11 pF, Cpk+heater 0.22 pF. Liquid plate cooling max 180°C, forced-air grid/cathode terminals max 200°C, envelope max 175°C. Full input to 2000 MHz.

The RCA 6383 is a compact high-power UHF triode for RF amplification, oscillation, frequency multiplication, and AF modulation.

SOURCE OPERATING CONDITIONS

1956 RCA Transmitting Tubes

SOURCE PDF

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

1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum Full-Input Frequency	**2000 MHz**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater Voltage Maximum	**6.9 V**	—
Plate Dissipation Maximum	**600 W**	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker