



ELECTRONIC TUBE REFERENCE

8727

Power - Triode Single (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Fast-warm-up ceramic-metal high-mu triode for linear RF amplification, oscillator, doubler, and tripler service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 225 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	4375 Ω
TRANSCONDUCTANCE	0.016 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	25 mA
Plate resistance derived from published $\mu=70$ and $gm=16000 \mu S$.	

Fast-warm-up ceramic-metal high-mu triode for linear RF, oscillator, doubler, and tripler service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	225 mA	—
Maximum plate voltage	250 V	—
Maximum cathode current	25 mA	—
Plate dissipation	2.5 W	—
Useful power output	2.2 W	LinearRF
Frequency doubler output	1.3 W	ClassC
Frequency tripler output	0.7 W	ClassC

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	70	—
Transconductance	16000 μ S	Plate125V;CathodeResistor50ohm;14mA
Plate resistance	4375 ohm	DerivedFromPublishedMuAndGm

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	2.1 pF	—
Grid-to-cathode/heater capacitance	4.4 pF	—
Plate-to-cathode/heater capacitance	0.04 pF	Maximum

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