



ELECTRONIC TUBE REFERENCE

4055

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-mu ceramic-metal pencil triode for plate-pulsed RF amplification, oscillation, and frequency multiplication. High transconductance, compact construction, and kilovolt pulse capability suit specialized high-frequency pulsed transmitter circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 295 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.035 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	40 mA
<i>High-mu ceramic-metal pencil triode. Plate resistance derived from published μ/gm at the published characteristic point.</i>	

High-mu ceramic-metal pencil triode for plate-pulsed RF power amplification, oscillation, and frequency multiplication.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	295 mA	—
Maximum plate voltage	3500 V	—
Maximum plate dissipation	10 W	—
Typical pulsed plate voltage	1750 V	PulseRF
Useful power output	1300 W	PulseRF
Peak heater-cathode voltage	60 V	BothPolarities
Operating frequency	3.3 GHz	PlatePulsedOscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	70	—
Transconductance	35000 μ S	—
Plate resistance	2000 ohm	DerivedFromPublishedMuAndGm

TUBE TINKER

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and their source documents.

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