



ELECTRONIC TUBE REFERENCE

6221

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Sonotone 6221 rugged subminiature medium-mu triode for extreme shock and vibration environments, with 6.3 V 175 mA heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 175 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 0 Triode	
TRANSCONDUCTANCE	0.0058 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	3.3 W
Sonotone 6221 JETEC 1955 rugged medium-mu triode. Heater 6.3 V 175 mA. Absolute max plate 165 V, dissipation 3.3 W, plate current 22 mA, grid current 5.5 mA, negative grid 55 V magnitude, heater-cathode 200 V. Typical V_a 100 V, R_k 150 Ω, I_a 8.5 mA, μ 27, gm 0.0058 A/V, grid cutoff -7 V for I_a 10 μA. C_{gp} 1.8 pF, input 2.2 pF unshielded. Shock 600 g, max bulb 220°C, life 1000 h, 2500 heater cycles, noise limits 25/50/100 mV p-p under vibration tests.	



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

9999 Mixed G 2000

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

9999 MIXED G 2000

Section 0 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	165 V	Maximum plate voltage
Heater/filament voltage	6.3 V	Heater voltage
Heater/filament current	175 mA	Heater current

TUBE TINKER

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