



ELECTRONIC TUBE REFERENCE

6223

Voltage Pentode - Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Rugged subminiature sharp-cutoff RF pentode developed by Sonotone for circuits subjected to severe shock and vibration. Eight flexible leads, 6.3 V/175 mA heater, and controlled electrical tolerances support dependable high-frequency amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
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 1 Pentode	
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM SCREEN VOLTAGE	155 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM SCREEN DISSIPATION	0.55 W
MAXIMUM CATHODE CURRENT	16.5 mA
<i>Sonotone 6223 sharp-cutoff ruggedized subminiature RF pentode with coated unipotential cathode and eight flexible leads (lead 1 g1, 2/4/8 cathode-g3-shield, 3/6 heater, 5 plate, 7 screen g2). Heater 6.3 V 175 mA. Absolute maximum ratings: DC plate 165 V, screen 155 V, plate dissipation 1.1 W, g2 input 0.55 W, DC cathode 16.5 mA. Typical at Va 100 V and cathode resistor 150 ohms: plate 7.5 mA, transconductance 5000 μmhos (0.005 S). Plate resistance 0.175 MΩ is explicitly MINIMUM, not typical nominal; left promoted rp NULL. Shielded capacitances grid-plate 0.015 pF, input 4.2 pF, output 3.4 pF. Withstands high mechanical impact/shock and vibration; claimed max impact 600g, prolonged vibration rated 2.5g in detailed explanatory note; source front-page OCR ambiguous 25g. Operation time about 20 s.</i>	

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 1 · Pentode

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