



ELECTRONIC TUBE REFERENCE

6ET6

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Low-voltage pentode for automobile-radio IF amplification, oscillator, and AF amplifier service from vehicle-compatible plate supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	90000 Ω
TRANSCONDUCTANCE	0.0021 S
MAXIMUM PLATE VOLTAGE	50 V
MAXIMUM SCREEN VOLTAGE	50 V
MAXIMUM PLATE DISSIPATION	0.5 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	15 mA
<p>Rogers 6ET6 single pentode section for automotive storage-battery IF, oscillator and audio-driver use. Heater 6.3 V 0.3 A. Design-center limits: plate and grid-2 each 50 V, plate and screen dissipation each 0.5 W, cathode current 15 mA. At plate 25 V and screen 6.3 V, gm 2100 micromhos, rp 90000 ohms, plate current 2.2 mA and screen current 0.6 mA. Separate typical operating conditions exist for 12.6 V and 6.3 V plate supply. In audio-driver service suppressor grid 3 may be tied to plate, without changing physical section count. Manufacturer capacitances: input 6.7 pF, output 4 pF, grid-to-plate 0.015 pF and grid1-grid2 3 pF. Heater-cathode maximum 50 V.</p>	

Pentode for IF amplifier, oscillator, or AF amplifier service in car radios.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Rogers

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

1959 ROGERS

Section 1 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	IF amplifier / oscillator / AF amplifier	—

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