

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

14Y7

2 SECTIONS

CONSTRUCTION

Voltage - Radio Detector Converter electronic tube

HEXODE-TRIODE

Rogers 14Y7 triode-hexode radio frequency converter with shared cathode and internally coupled oscillator grid, 14 V 0.1 A heater, and 9Q nine-pin base.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9Q	BASE PINS	9
NOMINAL HEATER	14 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0028 S
AMPLIFICATION FACTOR	22
MAXIMUM PLATE VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	0.8 W
MAXIMUM CATHODE CURRENT	6 mA
Rogers 14Y7 triode oscillator: max operating plate 175 V, no-current plate 550 V, dissipation 0.8 W, cathode current max 6 mA, heater-cathode max 150 V. Typical at Va 100 V, Vg 0 V, plate current 10 mA, gm 0.0028 A/V, mu 22; source inconsistency: 10 mA typical plate current exceeds 6 mA max cathode current. Shared cathode and grid tied internally to hexode g3. Capacitances triode grid-to-plate 1.4 pF, cathode-to-grid 5.6 pF, cathode-to-plate 2.4 pF.	

SECTION2 Hexode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Rogers 14Y7 hexode mixer: max operating anode 250 V, no-current anode 550 V, plate dissipation 1.5 W, screen g2+g4 dissipation 0.3 W, cathode current max 10 mA, heater-cathode max 150 V. Screen max 125 V at plate current 3 mA; 250 V when plate current <1 mA; no-current screen 550 V. No unconditional max_screen_voltage scalar assigned because screen limit depends on operating current. Typical conversion conductance 530/670/750 μmhos at specified 100/170/200 V supply conditions; conversion conductance not promoted to conventional gm. Hexode g1 input C 3.8 pF, plate output C 9.2 pF, grid1-plate max 0.1 pF, grid1-heater max 0.15 pF. Shared cathode with triode; hexode grid3 linked to triode grid.</i>	

Triode-hexode frequency converter.



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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	14 V	—
HeaterOrFilamentCurrent	100 mA	—

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Section 2 · Hexode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Frequency converter	—

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