



ELECTRONIC TUBE REFERENCE

6A8GTX

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Ceramic-base pentagrid converter for combined oscillator and mixer service at higher frequencies. GTX construction is specifically intended for high-frequency circuitry, distinguishing it from ordinary 6A8 receiving versions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
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 Heptode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM CATHODE CURRENT	14 mA
<p><i>Hytron 6A8GTX ceramic-base low-loss pentagrid/heptode converter, electrically equivalent in static characteristics to 6A8GT, but optimized for high-frequency operation. Indirect heater 6.3 V 0.3 A. Manufacturer maximum plate voltage 250 V, screen (grids 3 and 5) voltage 100 V, oscillator anode-grid (grid 2) voltage 200 V and total cathode current 14 mA. Grid-2 supply up to 250 V requires a 20 kΩ voltage-dropping resistor above 200 V; supply voltage is not the electrode maximum. Typical at plate 100 V/screen 50 V: plate current 1.2 mA, screen 1.5 mA and CONVERSION conductance 350 μmhos; at plate 250 V/screen 100 V: plate current 3.3 mA, screen 3.2 mA and conversion conductance 500 μmhos. Conversion conductance must not be promoted as intrinsic transconductance. Manufacturer lists interelectrode capacitances (with shield where indicated): grid-4-to-plate approximately 0.20 pF, grid-4-to-grid-2 0.19 pF, grid-4-to-grid-1 0.13 pF, oscillator grid-1-to-grid-2 1.0 pF, RF input 7.5 pF, oscillator output 5.0 pF, mixer output 7.5 pF and oscillator input 6.2 pF. Ceramic base ring/shield contact to ground pin reduces loss; separate physical mixer and oscillator electrode groups do not constitute separate independent tube sections.</i></p>	

Ceramic-base pentagrid converter for combined oscillator and mixer service in superheterodyne circuits; GTX construction is intended for high-frequency circuits.

TUBE TINKER

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