



TELEDYNE SEMICONDUCTOR

TS12AX7*

*NOTE: Patent Pending.

TS12AX7*

Solid State Vacuum Tube Replacement

Features

- ZERO WARM-UP
- NO MICROPHONICS
- REDUCED HEAT RADIATION
- MECHANICALLY RUGGED
- TRUE CUTOFF WHEN USED AS SWITCH
- NO SCREEN GRID POWER
- SEMICONDUCTOR RELIABILITY
- LOW NOISE/DISTORTION
- DIRECT REPLACEMENT
- NO HEATER POWER
- NO TRANSCONDUCTANCE DEGRADATION WITH TIME

Description

The TS12AX7 is a 9-pin miniature twin triode in a metal hermetic sealed package. It is designed for direct replacement of the conventional glass vacuum tubes where greater reliability, stability, and performance are desired. It is used as multivibrators or oscillators in industrial control devices, phase inverters, clamp circuit, relay drivers, and other diversified applications. The low power consumption makes it ideal for mobile equipment tube replacement. Application is primarily intended for replacement in circuits requiring unusually low plate current operation, such as those employing the type 12AX7 vacuum tube. For other applications, refer to the TS12AT7/A1 Fetron data sheet.

Maximum Ratings

Plate Voltage	250 Volts
Grid Voltage, Negative bias value	-50 Volts
Plate Dissipation	3.0 Watts
Peak Heater-Cathode Voltage	N/C
Maximum Grid Circuit Resistance	2.0 Megohms
Operating Temperature Range	-25°C to +125°C
Plate Current	5

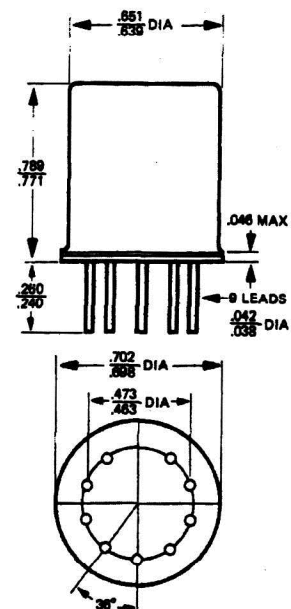
SIMILAR TS12AT7 FAMILY REPLACEMENT TYPES

12AU7, 6BC8, 6BQ7-A, 6CG7, 6J6, 7AU7, 9AU7, 8CG7, 12AV7, 6DT8, 6EV7, 12BZ7, 6201, 6679, 6189, 5814A, 6680, 6072, 396A, 407A, 407B, 12AT7, 12AZ7, 6BZ7, 6BZ8.

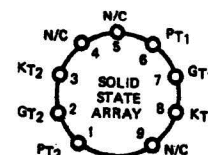
Foreign:

B152, B309, B739, ECC81, ECC82, E81CC, E82CC, ECC801, ECC801S, ECC802, ECC802S, ECC186, B329, B749, M8136, M8162, QB309, QA2406.

Physical Dimensions



Connection Diagram



TELEDYNE SEMICONDUCTOR 1300 Terra Bella Ave., Mountain View, Ca. 94040

Phone: (415) 968-9241 • TWX: (910) 379-6494