TYPE 6055

TRIODE

The Type 6055 is a subminiature medium-mu triode capable of operation in the uhf region. This type is characterized by long life and stable performance. It is designed for service where severe conditions of mechanical shock and vibration are encountered.

MECHANICAL DATA

GENERAL

Style ...................................................... subminiature
Cathode .................................................... coated, unipotential
Bulb ...................................................... T-3
Base ....................................................... K8-1, 1 Subminiature Button--Flexible Leads
Outline .................................................... 3-1
Maximum Bulb Diameter ................................ 0.400 inch
Maximum Overall Bulb Length ........................ 1.375 inches
Maximum Lead Length .................................... 1.500 inches
Mounting Position ....................................... any
Basing ..................................................... 8DR

Lead Connections:
Lead 1 .. grid #1  Lead 5 .. cathode
Lead 2 .. no connection  Lead 6 .. heater
Lead 3 .. heater  Lead 7 .. no connection
Lead 4 .. no connection  Lead 8 .. plate

RATINGS(2)

Maximum Impact Acceleration(3) ..................... 450 g
Maximum Uniform Acceleration(4) .................. 1,000 g
Maximum Vibrational Acceleration for
Extended Periods(5) ................................. 2.5 g

ELECTRICAL DATA

GENERAL

Direct Interelectrode Capacitances:
Grid to Plate ....................................... 1.80 μμf
Input ................................................. 2.20 μμf
Output ............................................... 0.80 μμf

Heater Voltage (ac or dc) .......................... 26.5 volts
Heater Current ....................................... 45 milliamps

RATINGS(2) -- Absolute System

Heater Voltage (ac or dc)(6) ...................... 26.5 (±5%) volts
Maximum Plate Voltage (dc) ....................... 55 volts
Maximum Plate Current ............................ 22 milliamps
Maximum Grid Current ................................ 8.5 milliamps
Maximum Heater-Cathode Voltage .................. ±200 volts

(See Page 2 for notes.)
TYPE 6055

CHARACTERISTICS

Conditions:
Heater Voltage (ac or dc) .................. 26.5 volts
Plate Voltage (dc) .......................... 26.5 volts
Grid Resistor ............................... 2.2 megohms
Plate Current ............................... 3.0 milliamps
Transconductance ......................... 5,000 micromhos
Amplification Factor ...................... 19

Grid Voltage for 10 μamps Plate Current ...... -3.5 volts

Noise Output Voltage, maximum\(^7\) ............ 100 millivolts

Life Expectancy, at 160 °C Maximum Bulb
    Temperature .............................. 5,000 hours

\(^1\) With 1.500 inches Minimum Lead Length
    as specified above.

\(^2\) Limitations beyond which normal tube
    performance and tube life may be
    impaired.

\(^3\) Forces in any direction as applied by
    the Navy Type High Impact (Flyweight)
    Shock Machine for Electric Devices,
    or equivalent.

\(^4\) Forces in any direction applied gradually,
    as in centrifuge.

\(^5\) Vibrational forces in any direction at 60
    cycles per second for a period exceeding
    100 hours.

\(^6\) Tube life and reliability of performance are
    directly related to the degree of regulation
    of the heater voltage to its center-rated
    value of 26.5 volts.

\(^7\) Across plate resistor of 10,000 ohms, with
    applied vibrational acceleration of 15 g
    at 40 cycles per second.