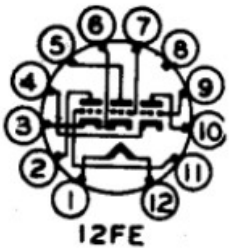
6AC10
High-Mu Triple Triode

EIA Base & Outline



Substitute Data

Substitutes 6D10 6AV11
Source ..... GE DS 9/65

Application

Source ..... GE DS 9/65
Duodecar type used in matrixing (color-difference) circuits of color television receivers. Requires duodecar 12-contact socket.

Mechanical Data

Source ..... GE DS 9/65
Bulb T-9
Base Type ..... E12-70 Button 12-Pin
EIA Outline 9-59
EIA Base 12FE
Cathode ..... Coated Unipotential
Mounting Position ..... Any

Electrical Data

Source ..... GE DS 9/65
Heater Voltage ..... 6.3 V
Heater Current ..... 0.6 A
Heater Warm-up Time ..... 11 s
Maximum Heater-Cathode Voltage
Heater Positive with Respect to Cathode
DC Component ..... 100 V
Total DC and Peak ..... 200 V
Heater Negative with Respect to Cathode
DC Component ..... 200 V
Total DC and Peak ..... 200 V

Direct Interelectrode Capacitances (approx)

Triode 1

Source ..... GE DS 9/65
Input ..... 2.4 pf
Output ..... 0.22 pf
Grid to Plate ..... 1.3 pf

Triode 2
Source ..... GE DS 9/65
Input ..... 2.6 pf
Output ..... 0.30 pf
Grid to Plate ..... 1.2 pf

Triode 3
Source ..... GE DS 9/65
Input ..... 2.6 pf
Output ..... 0.44 pf
Grid to Plate ..... 1.2 pf

Maximum Ratings (Design Center Values)

Each Triode
Source ..... GE DS 9/65
Plate Voltage ..... 330 V
Plate Dissipation ..... 2 W
Grid No. 1 Circuit Resistance
Fixed Bias ..... 500K Ω
Self Bias ..... 500K Ω

Characteristics and Typical Operation

Class A Amplifier
Source ..... GE DS 9/65
Plate Voltage ..... 200 V
Grid No. 1 Voltage Derived from
Cathode Bias Resistor ..... 150 Ω
Amplification Factor 62
Plate Resistance (approx) ..... 10.7K Ω
Transconductance ..... 5800 μ℧
Plate Current ..... 9 mA
Grid No. 1 Voltage for Ib ..... 100 μa @ -5 V