9-PIN MINIATURE TYPE

For Phase-Detector and Noise-Immune Color-Killer Circuits in Color-Television Receivers, and for FM-Stereo-Multiplex Equipment

Electrical:

Heater Characteristics and Ratings:
Voltage (AC or DC) ......... 6.3 ± 0.6 volts
Current at heater volts = 6.3 .... 0.600 amp
Peak heater-cathode voltage (Each unit):
   Heater negative with respect to cathode. ......... 300 max. volts
   Heater positive with respect to cathode. ......... 300 max. volts

Direct Interelectrode Capacitances (Approx.):

\[ \begin{align*}
P_{D1} \cdot K_{D2} & \text{ to } K_{D1} \quad 1.8 \text{ pf} \\
P_{D1} \cdot K_{D2} & \text{ to } P_{D2} \quad 2.2 \text{ pf} \\
P_{D2} & \text{ to (IS,H)} \quad 0.62 \text{ pf} \\
P_{D3} \cdot K_{D4} & \text{ to } K_{D3} \quad 1.9 \text{ pf} \\
P_{D3} \cdot K_{D4} & \text{ to } P_{D4} \quad 2.2 \text{ pf} \\
P_{D4} & \text{ to (IS,H)} \quad 0.94 \text{ pf} \\
K_{D1} & \text{ to (IS,H)} \quad 1.8 \text{ pf} \\
K_{D3} & \text{ to (IS,H)} \quad 1.9 \text{ pf}
\end{align*} \]

Mechanical:

Operating Position. ......... Any
Type of Cathodes. ......... Coated Unipotential
Maximum Overall Length. ......... 2–3/16"  
Maximum Seated Length. ......... 1–15/16"  
Length, Base Seat to Bulb Top (Excluding tip). ......... 1–9/16" ± 3/32"  
Diameter. ......... 0.750" to 0.875"  
Dimensional Outline. ......... See General Section  
Bulb. ......... T6–1/2  
Base. ......... Small-Button Noval 9-Pin (JEDEC No.E9–1)  
Basing Designation for BOTTOM VIEW. ......... 9PQ

Pin 1 – Plate of Unit No.4
Pin 2 – Plate of Unit No.3, Cathode of Unit No.4
Pin 3 – Cathode of Unit No.3
Pin 4 – Heater
Pin 5 – Heater
Pin 6 – Internal Shield
Pin 7 – Plate of Unit No.2
Pin 8 – Plate of Unit No.1, Cathode of Unit No.2
Pin 9 – Cathode of Unit No.1
Maximum Ratings, Design-Maximum Values:

Values are for Each Unit

Peak Inverse Plate Voltage ................ 300 max. volts
Peak Plate Current ......................... 54 max. ma
DC Output Current ......................... 9 max. ma

Characteristics, Instantaneous Value:

Values are for Each Unit

Plate Current for plate volts = 10 ........ 60 ma

*Without external shield.

ARRANGEMENT OF DIODE UNITS

PIN 6

PIN 1  UNIT No. 4  PIN 7

PIN 2  UNIT No. 3  PIN 8

PIN 3  UNIT No. 2  PIN 9

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