PHILIPS

U.H.F. TRIODE FOR TRANSMITTING AND RECEIVING PURPOSES

Physical Specifications
Filament Coated
Base Small button noval 9-pin
Bulb T6 1/2
Maximum overall length 2 3/16"
Maximum seated height 1 15/16"
Bulb length excluding tip 1 9/16" ± 3/32"
Maximum diameter 7/8"
Mounting position any
Basing connections - JETEC
basing designation 9BG

Pin 1 - grid
Pin 2 - not connected
Pin 3 - filament (-)
Pin 4 - filament (+)
Pin 5 - filament (-)
Pin 6 - not connected
Pin 7 - not connected
Pin 8 - plate
Pin 9 - not connected

General Electrical Data
Filament data
Filament voltage 1.25 volts
Filament current 0.22 amp.

Direct Interelectrode Capacitances
Grid to all other elements except plate 1.25 μF
Plate to all other elements except grid 0.75 μF
Plate to grid 1.5 μF

8.8.1951
Ratings (Design center values)

Plate voltage  max. 150 volts
Plate dissipation max. 3 watts
Cathode current max. 20 ma ¹)
Grid current max. 5 ma
Grid current starting point.
Grid voltage when grid current
= +0.3 u amp max. -0.2 volt
Grid circuit resistance 1 megohm
Filament voltage
max. 1.55 volts
min. 0.9 volt ²)

Typical Characteristics
Plate voltage 150 volts
Grid voltage -3.5 volts
Plate current 20 ma ¹)
Transconductance 3500 micromhos
Amplification factor 14

Operating characteristics for use as oscillator
Plate voltage 150 volts
Cathode current 20 ma ¹)
Grid current 1.5 ma
Frequency 470 megacycles per second
Output 0.45 watt

¹) Absolute maximum which must never be exceeded. When operating the tube at this cathode current the filament voltage must be at least 1.1 volts.

²) See footnote ¹)
Plate voltage = 150 volts