



EIMAC DIVISION

QUICK HEAT TETRODE

X2099

NEW PRODUCT BULLETIN

OBJECTIVE DATA

The EIMAC X-2099 is a compact, quick heat tetrode designed for push-to-talk mobile and airborne applications. The tube warms up to 70% peak current or 50% RF power output in 250 milliseconds. The X-2099 can be driven by low-level solid state up to its rated plate dissipation of 500 watts. The tube is air cooled, ceramic-metal construction.

The data supplied in this sheet is for guidance only. Before establishing final design specifications contact Product Manager, Power Grid Division, EIMAC Division of Varian.



GENERAL CHARACTERISTICS

ELECTRICAL

Cathode: Oxide Coated, Uni-Potential

Heating Time, nominal (see curves) 250 ms

Heater:

Voltage, nominal (see curves) 2.5 V
Current, nominal (Inrush current approximately twice operating current) . . . 10.5 A

Direct Interelectrode Capacitances, grounded cathode

Input 56.0 pF
Output 6.1 pF
Feedback 0.14 pF

Direct Interelectrode Capacitances, grounded grid

Input 33.0 pF
Output 6.2 pF
Feedback 0.02 pF

MECHANICAL

Base Special 9-pin

Maximum Operating Temperatures:

Ceramic-to-Metal Seals 250°C
Anode Core 250°C

Nominal Dimensions:

Height 3.50 in.
Seated Height 3.00 in.
Diameter 2.65 in.

Cooling Forced Air

Net Weight 8 ozs.

2. REFERENCE DIMENSIONS
ARE FOR INFORMATION ONLY
& ARE NOT REQ'D FOR
INSPECTION PURPOSES.

X2099
 Ea = 2.5
 6-22-67 LP



