

# FU618F 产品样本

FU618 是采用网状钍钨阴极、焊接鼠笼形栅极、同轴型电极引出结构的金属陶瓷四极管,最大输出功率 5.3kW,最高工作频率 150MHz。可与 4CX3000A 互换使用。



## 1 基本特性

### 1.1 阴极特性

|                          |         |
|--------------------------|---------|
| 加热方式                     | 直热式     |
| 加热电压 ( $U_f$ , AC 或 DC ) | 9V      |
| 加热电流 ( $I_f$ )           | 约 41.5A |

### 1.2 静态特性

|       |        |
|-------|--------|
| 内放大系数 | 5.5    |
| 跨导    | 35mA/V |
| 输入电容  | 130pF  |
| 输出电容  | 12.5pF |
| 跨路电容  | 1.0pF  |

### 1.3 工作特性

|         |            |
|---------|------------|
| 工作位置    | 阳极朝上或朝下    |
| 质量      | 2.5kg      |
| 阳极冷却方式  | 强迫风冷       |
| 最小风量    | 18000L/min |
| 出风口最高温度 | 100°C      |



# FU618F TETRODE

The Xuguang's FU618F could be used instead of the 4CX3000A.

## 1 General Characteristics

### 1.1 Cathode Characteristics

|                           |            |
|---------------------------|------------|
| Heating                   | Direct     |
| Heating voltage ( $U_f$ ) | 9V         |
| Heating current ( $I_f$ ) | Appr.41.5A |

### 1.2 Feature Characteristics

|                               |        |
|-------------------------------|--------|
| Internal Amplification Factor | 5.5    |
| Transconductance              | 35mA/V |
| Input                         | 130pF  |
| Output                        | 12.5pF |
| Transfer                      | 1.0pF  |

### 1.3 Operating Characteristics

|  |                           |
|--|---------------------------|
| Operating position                         | Vertical,anode up or down |
| Weight                                     | 2.5kg                     |
| Anode cooling                              | Forced air                |
| Air flow,min                               | 18000L/min                |
| Temperature at the air outlet,max          | 100°C                     |
| Temperature at the seal,max                | 250°C                     |
| Temperature at the terminal,max            | 150°C                     |
| Temperature on the surface of the tube,max | 250°C                     |

## 2 Maximum Ratings

|                          |          |     |     |
|--------------------------|----------|-----|-----|
| Frequency                | f        | 150 | MHz |
| Anode DC Voltage         | $U_a$    | 7   | kV  |
| Anode Dissipation        | $P_a$    | 3.5 | kW  |
| Control-grid Dissipation | $P_{g1}$ | 50  | W   |
| Screen-grid Dissipation  | $P_{g2}$ | 175 | W   |

