

## UHF TRIODE

1319

**OPERATING FREQUENCY:**

**1000 MHz,**

**OUTPUT POWER IN COMBINED AMPLIFICATION TV TRANSMITTER  
OR TRANSLATOR AS CLASS A POWER AMPLIFIER:**

**100 W**

### GENERAL CHARACTERISTICS

|                                                  |                |
|--------------------------------------------------|----------------|
| Cathode                                          | Oxide          |
| Heating                                          | Indirect       |
| Heater voltage                                   | 5.5 V          |
| Heater current                                   | 5.0-5.6 A      |
| Interelectrode capacitances                      |                |
| Input                                            | 22 pF          |
| Output                                           | 8 pF           |
| Transfer                                         | 0.07 pF        |
| Transconductance<br>( $U_a=1800V$ , $I_a=0.4A$ ) | $\geq 80$ mA/V |
| Amplification factor                             | 180            |
| Operating position                               | Any            |
| Weight                                           | 950g           |
| Dimensions                                       | see drawing    |
| Anode cooling                                    | Forced air     |
| Air flow, min.                                   | 500L/min       |
| Temperature at the seal, max.                    | 250°C          |
| Temperature on the tube surface, max.            | 200°C          |

### TYPICAL OPERATION

|                                            |                   |
|--------------------------------------------|-------------------|
| Frequency                                  | 780 MHz           |
| Anode DC voltage                           | 1.8 kV            |
| Anode DC current                           | 0.4 A             |
| Gain                                       | 20 dB             |
| Output power<br>Intermodulation distortion | 100 $\leq$ -52 dB |

### MAXIMUM RATINGS

|                   |          |
|-------------------|----------|
| Frequency         | 1000 MHz |
| Anode voltage     | 2.2 kV   |
| Anode current     | 0.6A     |
| Grid voltage-     | 100 V    |
| Anode dissipation | 750 W    |



