

DB949 (7T69RB) 产品样本

DB949 型电子管是金属陶瓷结构，碳化钨钨阴极三极管。阳极为强迫风冷。其最大阳极耗散功率 4.5kW,极限频率 110MHz,在低于极限频率时，输出功率可达 9.1KW;主要用于工业高频加热设备中,可与日本东芝公司生产的 7T69RB 型电子管互换使用。



1 基本特性

1.1 阴极特性

加热方式

直热式

灯丝电压

12.6 V

灯丝电流

35 A

1.2 静态特性

极间电容:

阴极与栅极

18 pF

栅极与阳极

13 pF

阴极与阳极

0.7 pF

跨导 ($I_a=0.8A$)

13 mA/V

放大系数

21

1.3 一般特性

工作位置

垂直, 阳极朝上或朝下

质量

2.8 kg

外形尺寸

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冷却方式

强迫风冷

阳极冷却风量

7 m³/min

封接处最高温度

250 °C

2 额定最大值

频率

110 MHz

阳极直流电压

8 kV

阳极直流电流

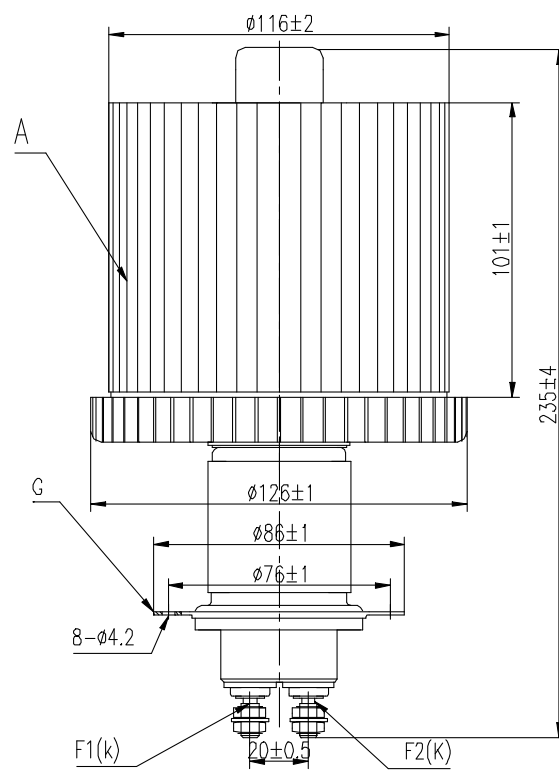
2 A

阳极耗散功率	4.5 kW
栅极直流电流	0.5 A
栅极耗散功率	180 W

3 典型运用

灯丝电压	12.6 V
阳极输出功率	7-9 kW
阳极直流电压	6-7 kV
阳极直流电流	1.6-1.8 A
栅极直流电流	250-320 mA
栅极偏压电阻	3.5 k Ω

4 产品外形图



DB949(7T69RB) TRIODE

The DB949 is a ceramic-metal and the cathode is carbonize thorium and tungsten triode. The anode is forced air. It's anode dissipation max is 4.5kW. The maximum frequency is 110MHz,when the cost is under the maximum frequency, The output power is 9.1kW. Designed for high frequency and calefaction equipment in industry.

1 General Characteristics

1.1 Cathode Characteristics

Heating	Direct
Heating voltage (U_f)	12.6V
Heating current (I_f)	35A

1.2 Feature Characteristics

Internal Amplification Factor	21
Transconductance ($I_a = 0.8A$)	13mA/V
Grid-cathode capacitance	18pF
Grid-anode capacitance	13pF
Cathode-anode capacitance	0.7PF

1.3 General Characteristics

Operating position	Vertical,anode up or down
Weight,approx	2.8 kg
Dimensions	See page
Cooling	Forced air
Anode cooling air flow	7 m ³ /min
Temperature at the seal,max.	250 °C

2 Maximum Ratings

Frequency	110	MHz
Anode DC voltage	8	kV
Anode DC current	2	A
Anode dissipation	4.5	kW
Grid DC current	0.5	A
Grid dissipation	180	W

3 Typical Application

Filament voltage	12.6	V
Anode output power	7-9	kW
Anode DC voltage	6-7	kV
Anode DC current	1.6-1.8	A
Grid DC current	250-320	mA
Grid bias resistance	3.5	k Ω

4 Product Outline Drawing

