

DB952 产品样本

DB952 是采用网状钨钨阴极、高纯石墨栅极、超蒸发水冷阳极和同轴型电极结构的金属陶瓷三极管，最大输出功率 120kW，最高工作频率 100MHz，适宜作射频振荡和放大，可与 RS3060CJ 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)	10V
加热电流 (I_f)	约 190A

1.2 静态特性

放大系数	约 20
跨导 ($U_a=4kV$, $I_a=3A$)	50mA/V
阴极与栅极间电容	95pF
阴极与阳极间电容	2.6pF
栅极与阳极间电容	46pF

2 最大额定值

频率	f	30	MHz
阳极直流电压	U_a	14	kV
栅极直流电压	U_g	-1500	V

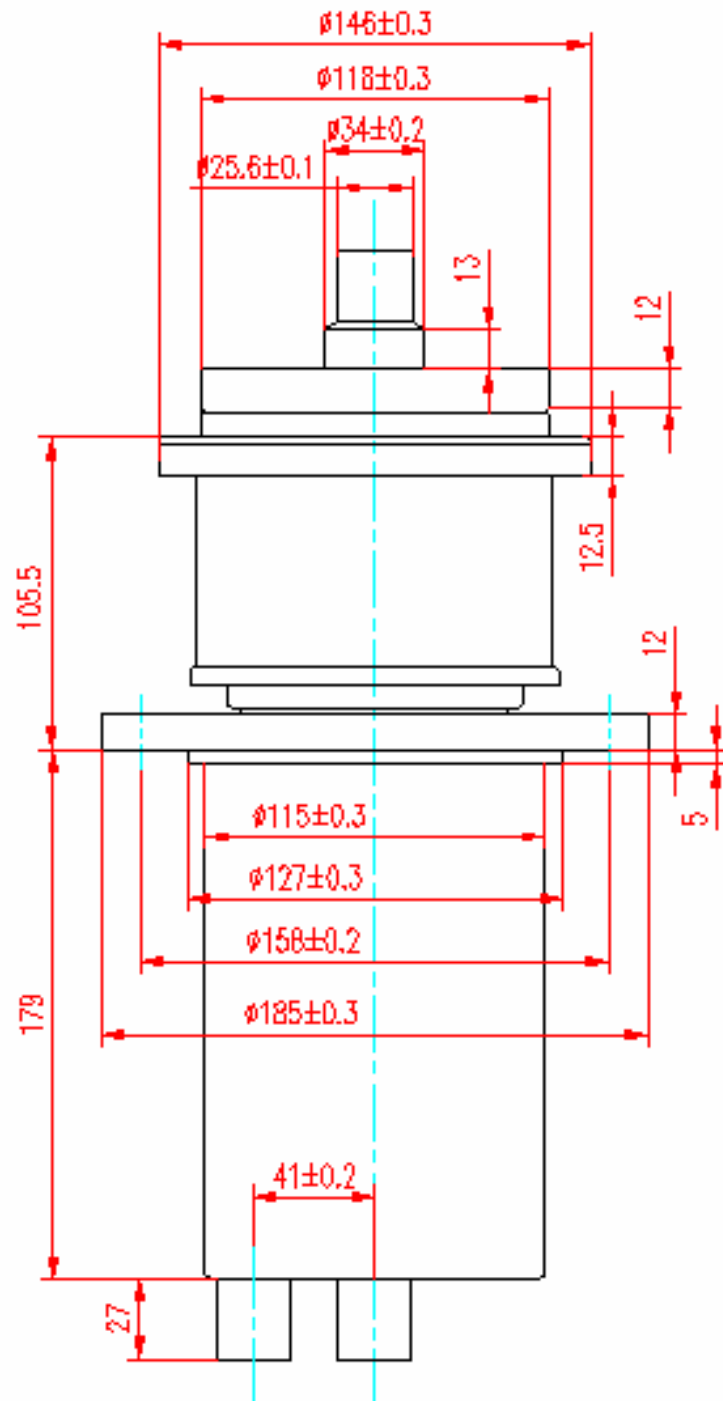
阳极耗散功率	P_a	40	kW
栅极耗散功率	P_g	1200	W
输出功率	P	120	kW

3 典型应用

C 类射频振荡放大

频率	f	<15	MHz
阳极直流电压	U_a	13	kV
栅极直流电压	U_g	-950	V
阳极电流	I_a	12.1	A
阳极输入功率	P_i	157	kW
阳极输出功率	P_i	120	kW
阳极耗散功率	P_a	35	kW
栅极耗散功率	P_g	750	W

4 产品外形图



5 恒流特性曲线

DB952 TRIODE

The Xuguang's DB952 could be used instead of the RS3060CJ.

1 General Characteristics

1.1 Cathode Characteristics

Heating	Direct
Heating voltage (U_f)	10V
Heating current (I_f)	Appr.190A

1.2 Feature Characteristics

Amplification Factor	Appr. 20
Transconductance ($U_a=4kV, I_a =3A$)	50mA/V
Grid-cathode capacitance	95pF
Cathode-anode capacitance	2.6pF
Grid-anode capacitance	46pF

2 Maximum Ratings

Frequency	f	30	MHz
Anode DC Voltage	U_a	14	kV
Grid DC Voltage	U_g	-1500	V
Anode Dissipation	P_a	40	kW
Grid Dissipation	P_g	1200	W
Output Power	P	120	KW

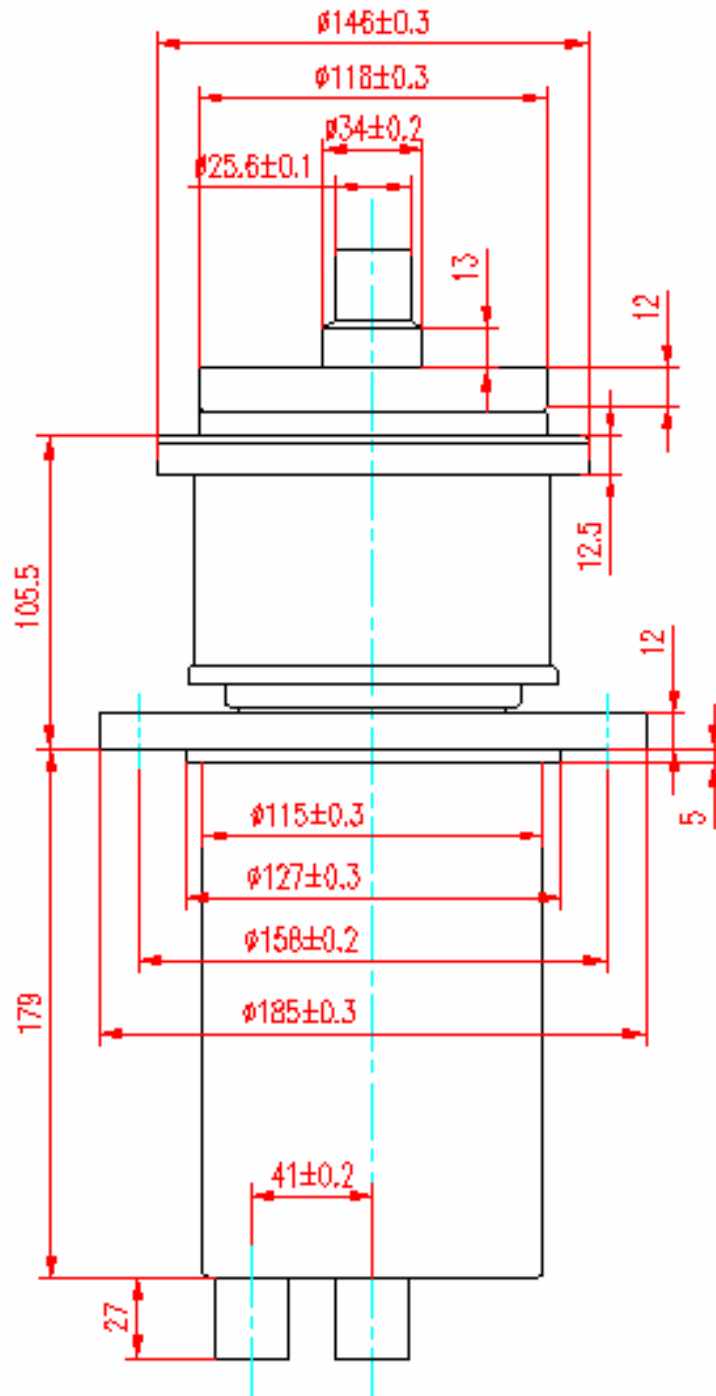
3 Typical Application

Class C RF Oscillator for industrial applicayions

Frequency	f	<15	MHz
Anode DC Voltage	U_a	13	kV
Grid Voltage	U_g	-950	V
Anode Current	I_a	12.1	A

Anode Input Power	P_i	157	kW
Anode Output Power	P_0	120	kW
Anode dissipation	P_a	35	kW
Grid Dissipation	P_g	750	W

4 Product Outline Drawing



5 Constant current characteristics

