

DB958 产品样本

DB958 是采用网状钽钨阴极、钼丝焊接鼠笼型栅极、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45kW,最高工作频率120MHz,适宜作射频振荡和放大,可与Thalase公司生产的CTK15-2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)	7.2V
加热电流 (I_f)	约 180A

1. 2 静态特性

放大系数 ($U_a=6$ to $8kV$, $I_a=2A$)	200
跨导 ($U_a=4kV$, $I_a=2$ to $4A$)	60mA/V
阴极与栅极间电容	67pF
阴极与阳极间电容	0.25pF
栅极与阳极间电容	27pF

2 额定最大值

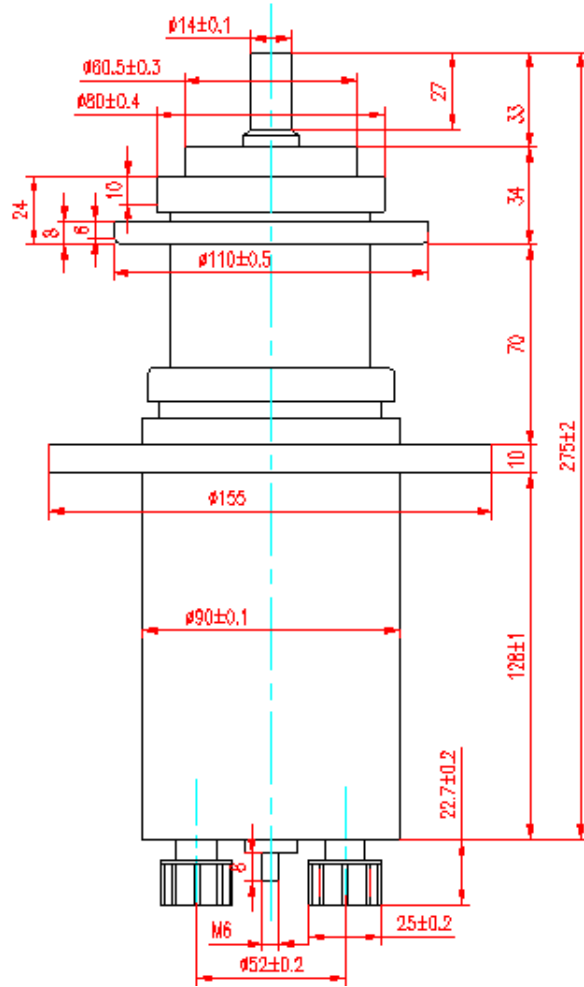
频率	f	120	MHz
阳极直流电压	U_a	13	kV
栅极直流电压	U_g	-1500	V
阳极电流 (CW)	I_a	8	A
峰值阴极电流 (CW)	I_{km}	40	A

阳极耗散功率	P_a	20	kW
栅极耗散功率	P_g	800	W
输出功率	P_{out}	45	kW

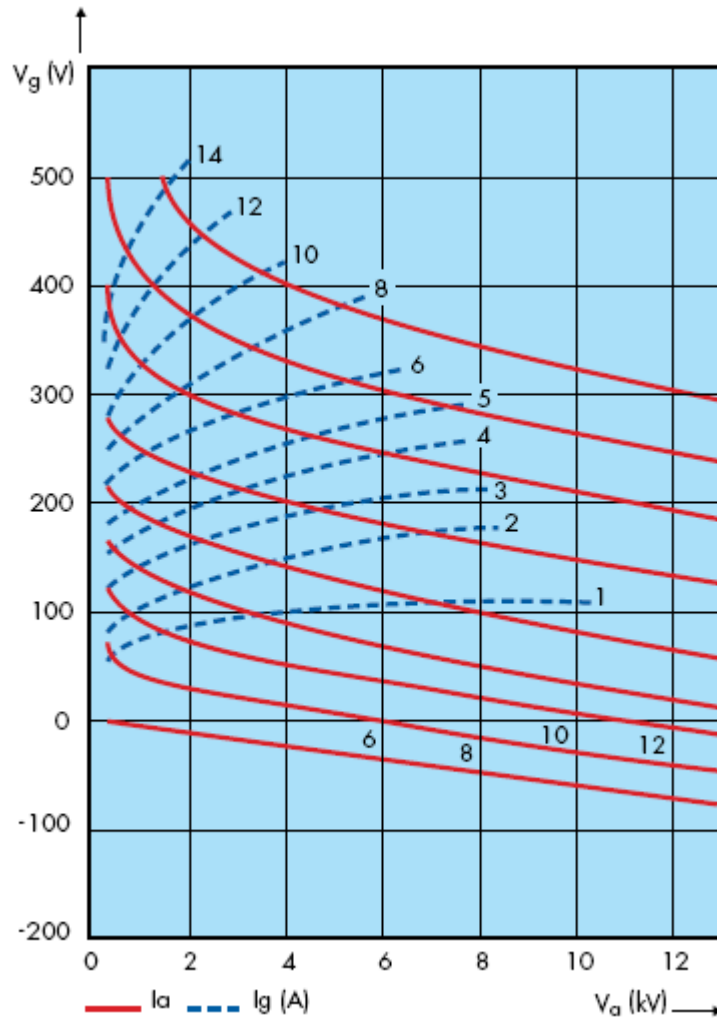
3 典型应用

频率	f	30	MHz
阳极直流电压	U_a	11	kV
栅极直流电压	U_g	-235	V
阳极电流	I_a	5.4	A
栅极激励功率	P_i	1000	W
阳极输出功率	P_{out}	45	kW

4 产品外形图



5 恒流特



性曲线

DB958 TRIODE

The Xuguang's DB958 could be used instead of the CTK15-2.

1 General Characteristics

1.1 Cathode Characteristics

Heating	Direct
Heating voltage (U_f)	7.2V
Heating current (I_f)	Appr.180A

1.2 Feature Characteristics

Amplification Factor ($U_a=6$ to $7kV$, $I_a=2A$)	200
Transconductance ($U_a=4kV$, $I_a=2$ to $4A$)	60mA/V
Grid-cathode capacitance	67pF

Cathode-anode capacitance	0.25pF
Grid-anode capacitance	27pF

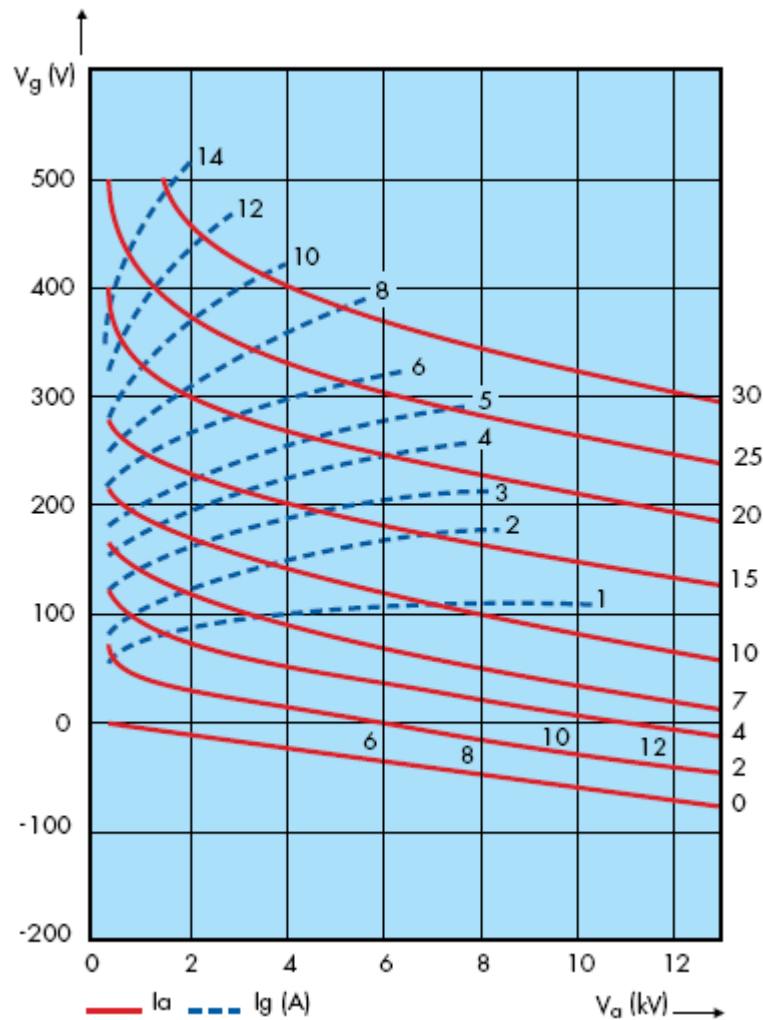
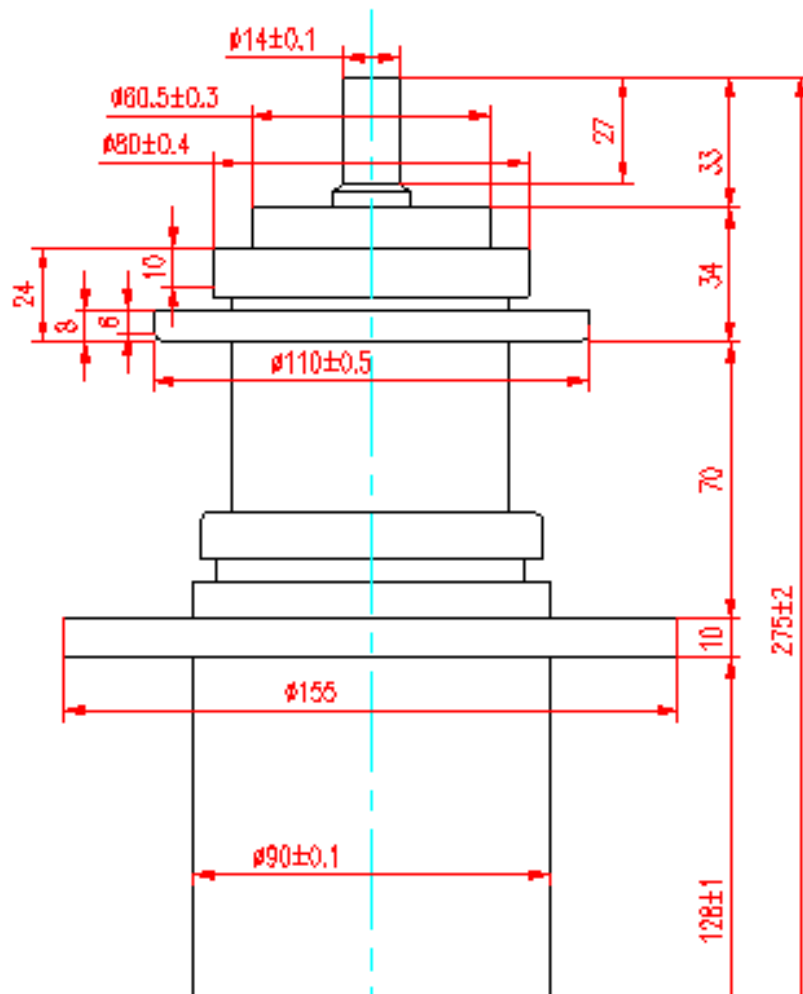
2 Maximum Ratings

Frequency	f	120	MHz
Anode DC Voltage	U_a	13	kV
Grid DC Voltage	U_g	-1500	V
Cathode DC Current	I_k	8	A
Peak Cathode Current	I_{km}	40	A
Anode Dissipation	P_a	20	kW
Grid Dissipation	P_g	800	W
Output Power	P_{out}	45	kW

3 Typical Application

Frequency	f	30	MHz
Anode DC Voltage	U_a	11	kV
Grid Voltage	U_g	-235	V
Anode Current	I_a	5.4	A
Input Power	P_{in}	1000	W
Output Power	P_{out}	45	kW

4 Product Outline Drawing



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