

FC307F 产品样本

FC307F 型大功率金属陶

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四极管，采用网状钨钨阴极、

铜

筒鼠笼型栅极、同轴型电极结

构。

适用于 3~5KW 分米波合放式

和

10KW 分放式彩色电视机发射

机中作功率放大用，工作频率最高可达 1000MHz。



1 基本特性

1.1 阴极特性

加热方式	直热式，直流电或单相交流电
灯丝电压	4.2V
灯丝电流	130A

1.2 静态特性

阴极发射电流 ($U_a=U_g=500V$)	55A
内放大系数	8
跨导 ($U_{g2}=600V, I_a=1.5A$)	80mA/V
阴极与控制栅极间电容	72pF
控制栅极与帘栅极间电容	93pF
帘栅极与阳极间电容	13.2pF

2 最大额定值

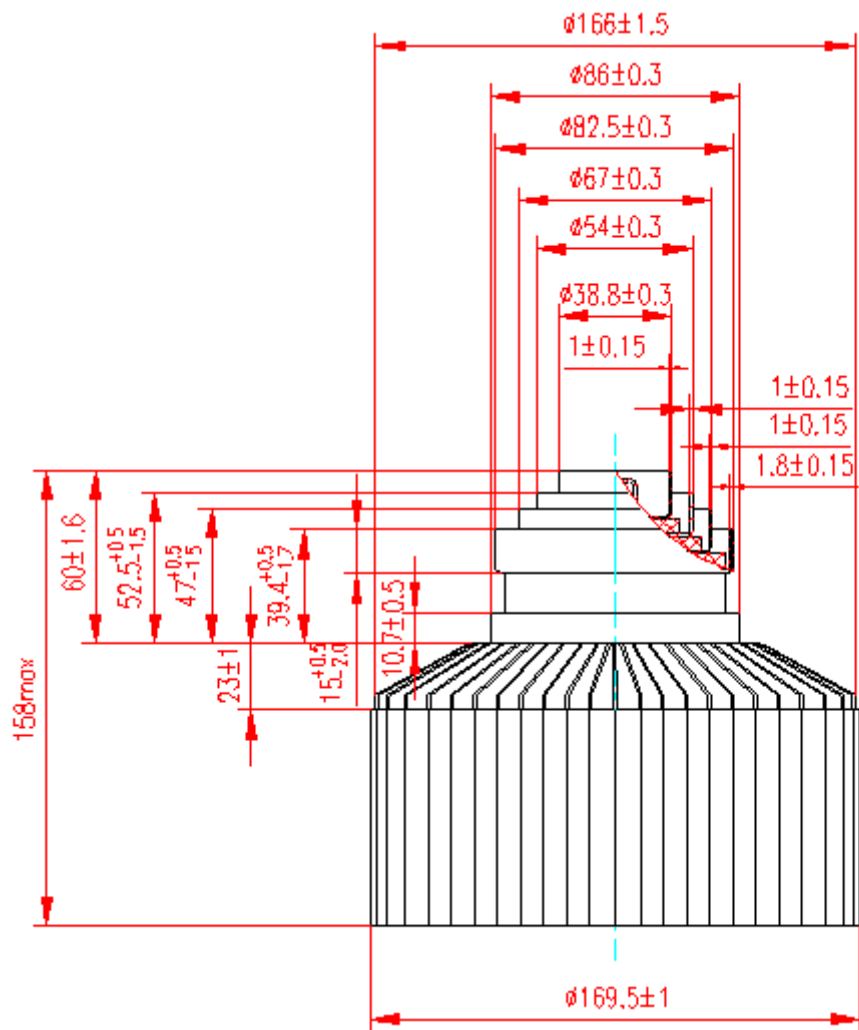
频率	f	1000	MHz
阳极直流电压	U_a	6.5	kV
阳极电流	I_a	4.5	A

阳极耗散功率	P_a	12.5	kW
控制栅极直流电压	U_{g1}	-200	V
控制栅极耗散功率	P_{g1}	50	W
帘栅极耗散功率	P_{g2}	120	W

3 典型应用

	合放式	仅图像放大	
频率	800	800	MHz
同步顶输出功率	5.25	11	kW
带宽(-1dB)	8	6	MHz
互调失真	-52	--	dB
增益	15.5	15.4	dB
阳极电压	5.5	5.5	kV
帘栅极直流电压	600	600	V
阳极电流(有信号时)	2.7	3.25	A
阳极电流(零信号时)	1.5	1.2	A
控制栅极电流	10	5	mA
帘栅极电流	30	30	mA

4 产品外形图



FC307F TETRODE

The Xuguang's FC307F could be used instead of the TH382.

1 General Characteristics

1.1 Cathode Characteristics

Heating	Direct,DC or single phase AC
Filament voltage (U_f)	4.2V
Filament current (I_f)	130A

1.2 Feature Characteristics

Cathode Emission Current ($U_a=U_g=500V$)	55A
Internal Amplification Factor , average	8
Transconductance ($U_{g2}=600V, I_a=1.5A$)	80mA/V
Control grid-cathode capacitance	72pF
Control grid-screen grid capacitance	93pF
Screen grid-anode capacitance	13.2pF

2 Maximum Ratings

Frequency	f	1000	MHz
Anode DC Voltage	U_a	6.5	kV
Anode DC Current	I_a	4.5	A
Anode Dissipation	P_a	12.5	kW
Grid DC Voltage	U_{g1}	-200	V
Control grid Dissipation	P_{g1}	50	W
Screen grid Dissipation	P_{g2}	120	W

3 Typical Application

Combined amplification	Vision only
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Frequency	800	800	MHz
Peak-of-sync output power	5.25	11	kW
Bandwidth(-1dB)	8	6	MHz
Intermodulation distortion	-52	--	dB
Gain	15.5	15.4	dB
Anode voltage	5.5	5.5	kV
Screen-grid voltage	600	600	V
Anode current(with signal)	2.7	3.25	A
Anode current(at zero signal)	1.5	1.2	A
Control-grid current	10	5	mA
Screen-grid current	30	30	mA

4 Product Outline Drawing

