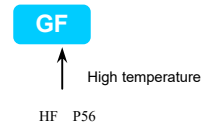


GF 系列 SERIES



- 应对 AC 伺服放大器、变频器再生引起的频繁的大电压变化。
For frequently charge of regenerative voltage from AC servo amplifier and inverter control.
- 保证 115℃、2000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 2000 hours at 115℃
- 额定工作电压范围: 350V~450V
Rated voltage range: 350V~450V
- 最适合高频度打开/关闭电源及电压变化大的电源用。
Ideal use to power supply, specially power source with turn on and off frequently and highly voltage fluctuation.



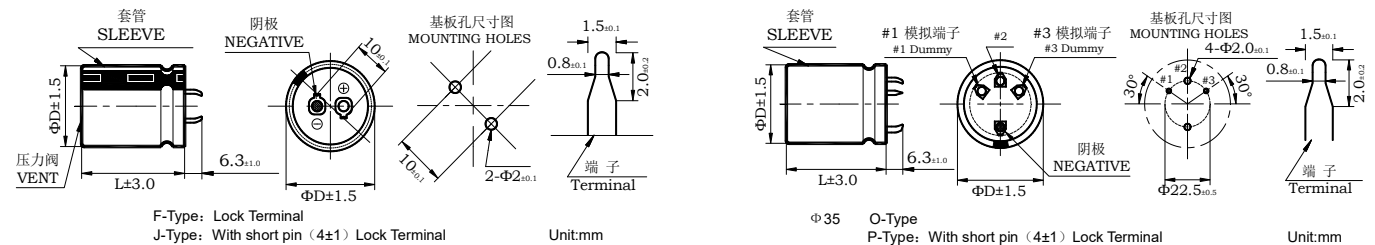
规格表 SPECIFICATIONS

项目 Items	特性 Characteristics					
工作温度范围 Operating Temperature Range	-25~+115℃					
额定工作电压范围 Rated Working Voltage Range	350~450V					
静电容量允许偏差 Capacitance Tolerance	±20% (20℃, 120Hz)					
损耗角正切值 Dissipation Factor (MAX) 20℃, 120Hz	U _R (V)	350	400	420	450	
	tanδ	0.18	0.18	0.20	0.20	
阻抗比 Impedance Ratio (MAX) 120Hz	U _R (V)	350	400	420	450	
	Z _{25℃} /Z _{+20℃}	7	7	8	8	
漏电流 Leakage Current (MAX)	I=0.01C _R U _R 或 1.5mA 取小者 (20℃, 施加额定电压 5 分钟后) I=0.01C _R U _R or 1.5mA whichever is minimum. (at 20℃, After 5minutes application of rated voltage)					
	I=漏电流 (μA) U _R =额定电压 (V) C _R =静电容量 (μF) Leakage Current Rated Voltage Rated Capacitance					
充放电特性 Charge and Discharge			在 15~35℃ 环境下, 用如图 6Hz 频率波形电压充放电 5000 万次, 恢复 20℃ 后检测, 满足表中要求: Under the condition of 15-35℃, charge & discharge the capacitor 50million times with 6Hz frequency voltage applied, then make the capacitor recover to 20℃, all requirements shown in the table are satisfied.		漏电流 Leakage current	≤规定值 ≤Specified value
					损耗角正切值变化率 tanδ change	≤规定值的 200% ≤200% of specified value
					静电容量变化率 Capacitance change	初始值±20%以内 Within±20% of initial value

	使用寿命 Useful Life		负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Shelf Life
产品寿命 Life Time	6000h	>180000h	2000h	2000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value		≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 tanδ change	≤规定值的 300% ≤300% of specified value		≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value
静电容量变化率 Capacitance Change	初始值±30%以内 Within±30% of initial value		初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value
施加条件 Condition 施加电压 Applied Voltage 施加纹波电流 Applied Ripple Current 环境温度 Applied Temperature 失效等级 Failure Rate Level	U _R I _R 115℃ ≤1% Failure rate	U _R 1.6×I _R 40℃ ≤1% Failure rate	U _R I _R 115℃ 0%	U _R I _R =0 115℃ 0%	U _R =0 I _R =0 115℃ 0% Back up to 20℃ and placed more than 24 hours. U _R to be applied for 60 min before measurement.

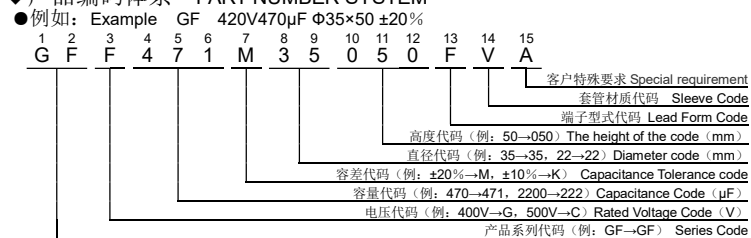
尺寸图 Dimensions

● 常用端子型式代码: Terminal Code



● 记载以外的端子形状, 请另行咨询。Please consult to us for the terminal type not displayed in content.

产品编码体系 PART NUMBER SYSTEM



纹波电流修正系数 Rated Ripple Current Multiplies

频率修正系数 Frequency coefficient		
电压范围 (v) Rated voltage	频率 (Hz) Frequency	
350~450VV	50 (60)	0.70
	100 (120)	1.00
	300	1.16
	1k	1.30
	≥10k	1.41
温度修正系数 Temperature coefficient		
电压范围 (v) Rated voltage	温度 (℃) Temperature	
350~450VV	+40	3.3
	+55	3.1
	+70	2.6
	+85	2.1
	+105	1.2
	+115	1.0

◆ 产品一览表 Standard Ratings

WV _{dc} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃/120Hz	Ripple Current 115℃/120Hz (Arms)	Catalog Part Number	WV _{dc} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃/120Hz	Ripple Current 115℃/120Hz (Arms)	Catalog Part Number
350 (400)	68	22×30	0.18	0.41	GFH680M22030□VA	420 (470)	68	22×30	0.20	0.45	GFF680M22030□VA
	82	22×30	0.18	0.45	GFH820M22030□VA		82	22×30	0.20	0.49	GFF820M22030□VA
	100	22×30	0.18	0.51	GFH101M22030□VA		100	22×35	0.20	0.56	GFF101M22035□VA
	120	22×30	0.18	0.56	GFH121M22030□VA		120	22×40	0.20	0.65	GFF121M22040□VA
	150	22×35	0.18	0.64	GFH151M22035□VA		150	22×45	0.20	0.75	GFF151M22045□VA
	180	22×40	0.18	0.78	GFH181M22040□VA		180	22×50	0.20	0.87	GFF181M22050□VA
	220	22×45	0.18	0.91	GFH221M22045□VA		220	25×45	0.20	1.05	GFF221M25045□VA
	270	25×50	0.18	1.13	GFH271M25050□VA		270	25×50	0.20	1.18	GFF271M25050□VA
	330	30×40	0.18	1.25	GFH331M30040□VA		330	30×50	0.20	1.38	GFF331M30050□VA
	390	30×45	0.18	1.44	GFH391M30045□VA		390	30×50	0.20	1.55	GFF391M30050□VA
	470	30×50	0.18	1.65	GFH471M30050□VA		470	35×50	0.20	1.80	GFF471M35050□VA
	560	35×50	0.18	1.91	GFH561M35050□VA		560	35×50	0.20	2.04	GFF561M35050□VA
	680	35×50	0.18	2.16	GFH681M35050□VA		680	35×60	0.20	2.35	GFF681M35060□VA
	820	35×60	0.18	2.40	GFH821M35060□VA		820	35×70	0.20	2.64	GFF821M35070□VA
1000	35×60	0.18	2.65	GFH102M35060□VA	1000	35×75	0.20	2.96	GFF102M35075□VA		
400 (450)	47	22×25	0.18	0.33	GFG470M22025□VA	450 (500)	47	22×25	0.20	0.36	GFE470M22025□VA
	68	22×30	0.18	0.43	GFG680M22030□VA		68	22×30	0.20	0.47	GFE680M22030□VA
	82	22×30	0.18	0.47	GFG820M22030□VA		82	22×35	0.20	0.55	GFE820M22035□VA
	100	22×35	0.18	0.54	GFG101M22035□VA		100	22×40	0.20	0.58	GFE101M22040□VA
	120	22×35	0.18	0.62	GFG121M22035□VA		120	22×45	0.20	0.67	GFE121M22045□VA
	150	22×40	0.18	0.69	GFG151M22040□VA		150	22×50	0.20	0.78	GFE151M22050□VA
	180	22×40	0.18	0.80	GFG181M22040□VA		180	25×45	0.20	0.91	GFE181M25045□VA
	220	25×45	0.18	0.98	GFG221M25045□VA		220	25×50	0.20	1.09	GFE221M25050□VA
	270	25×50	0.18	1.15	GFG271M25050□VA		270	30×50	0.20	1.24	GFE271M30050□VA
	330	30×40	0.18	1.27	GFG331M30040□VA		330	30×50	0.20	1.44	GFE331M30050□VA
	390	30×45	0.18	1.45	GFG391M30045□VA		390	35×50	0.20	1.64	GFE391M35050□VA
	470	30×50	0.18	1.67	GFG471M30050□VA		470	35×50	0.20	1.85	GFE471M35050□VA
	560	35×50	0.18	1.95	GFG561M35050□VA		560	35×60	0.20	2.16	GFE561M35060□VA
	680	35×60	0.18	2.24	GFG681M35060□VA		680	35×70	0.20	2.51	GFE681M35070□VA
820	35×70	0.18	2.56	GFG821M35070□VA	820	35×75	0.20	2.73	GFE821M35075□VA		
1000	35×75	0.18	2.84	GFG102M35075□VA	1000	35×85	0.20	3.09	GFE102M35085□VA		

*产品编码中□内为产品端子引出型式代码

*□Enter the appropriate terminal code

*记载之外的体积，请另行咨询。

* Please ask for advice for other sizes.

*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.