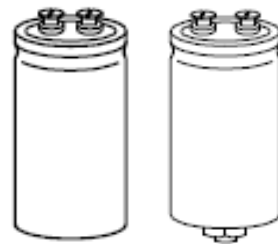


# GN

- 耐高纹波,长寿命,85°C 10000 小时 ,可用于大功率电源、UPS 不间断电源、变频器等电路中。  
High ripple current ,Long life ,Load life of 10000 hours at 85°C.
- Used large power source,Uninterruptible power supplies ,Frequency converter circuit .etc.
- ROHS 指令已对应完毕。Adapted to the ROHS directive



## 主要技术性能 Specifications

项目 Item	特性 Performance Characteristics	
使用温度范围 Operating temperature range	-25°C ~ +85°C	
额定电压范围 Rated voltage range	400 ~ 450 V	
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)	
漏电流 Leakage current	$I \leq 0.01CV(\mu A)$ 或5mA 5分钟 取较小值 (at 20°C, after 5 minutes ,Whichever is smaller )	
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	≤ 0.15	
温度特性 Temperature characteristics (Impedance ratio at 120Hz)	Rated Voltage (V)	400~450
	$Z_{-25^\circ C} / Z_{+20^\circ C}$	8
高温贮存 Shelf life	+85°C,1000 小时贮存后,加额定工作电压处理 30 分钟,恢复 16 小时后: After storage for 1000 hours at +85°C , U <sub>R</sub> to be applied for 30 minutes and then resumed 16 hours 电容量变化率 Capacitance change : ±20%初始测量值以内 Initial measured value 漏电流 Leakage current : ≤初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 2times Initial specified value	

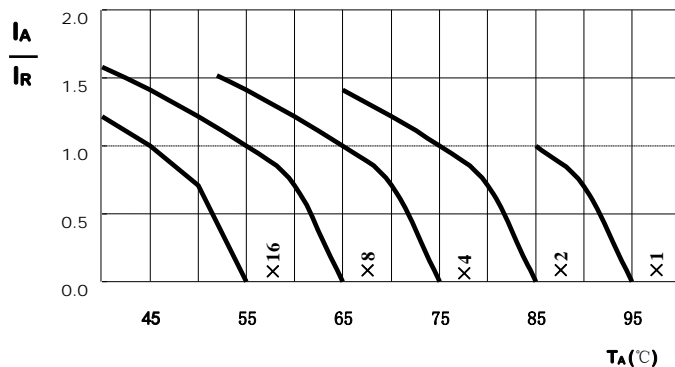
	使用寿命 (Useful Life)		负载寿命 (Load Life)	耐久性测试 (Endurance Test)
	寿命时间 (Lifetime)	15000h	>150000h	10000h
漏电流 (Leakage Current)	≤初始规定值 Not more than specified value		≤初始规定值 Not more than specified value	≤初始规定值 Not more than specified value
电容量变化率 (Caacitance Change)	±30%初始测量值内 Within ±30% initial value		±25%初始测量值内 Within ±25% initial value	±10%初始测量值内 Within ±10% initial value
损耗角正切值 (Dissipation Factor)	≤3 倍初始规定值 Not more than 300% of specified value		≤2.5 倍初始规定值 Not more than 250% of specified value	≤1.3 倍初始规定值 Not more than 130% of specified value
应用条件 (Condition): 应用电压 (Applied Voltage) 应用电流 (Applied Current) 应用温度 (Applied Temperature) 失效率 (Outlier Percentage)	U <sub>R</sub> I <sub>R</sub> 85°C ≤1%	U <sub>R</sub> 1.4×I <sub>R</sub> 40°C ≤1%	U <sub>R</sub> I <sub>R</sub> 85°C 0%	U <sub>R</sub> I <sub>R</sub> =0 85°C IEC60384

## 纹波电流的相关参数 Multiplier for Ripple Current

### 频率系数 Frequency Coefficient

Frequency (Hz)	Rated Voltage (V)				
	50	100 (120)	300	1k	≥10K
400~450	0.70	1.00	1.10	1.30	1.40

## 寿命时间图 Life Time Graph



此图表示电容的使用寿命时间

The graphs shows a typical trend of the standard capacitor useful life.

## 技术参数 Technical data

Rated Voltage	Surge Voltage	Rated Capacitance	Dissipation Factor MAX	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Max Ripple Current 85°C,120Hz	SIZE
(V.D.C)	(V.D.C)	( $\mu$ F)	-	(m $\Omega$ )	(m $\Omega$ )	(Arms)	$\Phi$ D $\times$ L(mm)
400	450	1500	0.15	141	75.2	6.8	51 $\times$ 115
		2200	0.15	96.5	51.3	8.3	51 $\times$ 115
		3300	0.15	64.3	34.2	11.0	63.5 $\times$ 115
		3900	0.15	54.4	28.9	12.4	63.5 $\times$ 130
		4700	0.15	45.2	24.0	14.4	76 $\times$ 115
		5600	0.15	37.9	20.1	16.3	76 $\times$ 130
		6800	0.15	31.2	16.6	18.9	76 $\times$ 155
		8200	0.15	25.9	13.8	21.5	76 $\times$ 170
		10000	0.15	21.2	11.3	25.2	89 $\times$ 155
		12000	0.15	16.5	9.5	29.1	89 $\times$ 195
		15000	0.15	13.5	7.3	35.0	89 $\times$ 195
450	500	1500	0.15	159	79.6	6.5	51 $\times$ 115
		2200	0.15	108	54.3	8.8	63.5 $\times$ 95
		3300	0.15	72.4	36.2	11.5	63.5 $\times$ 130
		3900	0.15	61.2	30.6	13.1	76 $\times$ 115
		4700	0.15	50.8	25.4	14.8	76 $\times$ 130
		5600	0.15	42.7	21.3	16.8	76 $\times$ 155
		6800	0.15	35.1	17.6	20.1	76 $\times$ 170
		8200	0.15	29.1	14.6	23.1	89 $\times$ 155
		10000	0.15	23.5	11.8	26.8	89 $\times$ 195
		12000	0.15	16.5	9.4	31.5	89 $\times$ 235