

BN

特点 Features

- 105°C 2000H. 105°C 2000 hours.
- 电压范围：100V~250V。Voltage range：100V~250V.
- 无极性，高纹波。Nonpolarity, High R.C
- 满足RoHS要求。RoHS compliant.



主要技术性能 Specifications

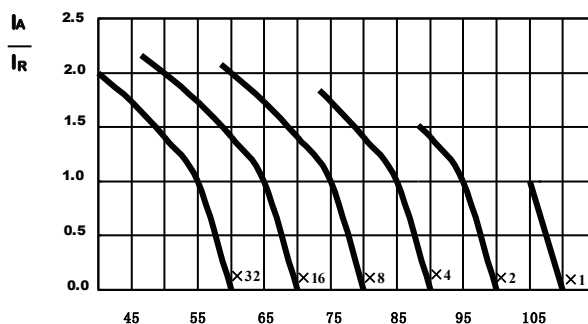
项目 Items	特性 Performance Characteristics							
类别温度范围 Category Temperature Range	-25~+105°C							
额定电压范围 Rated Voltage(U _R)	AC100~250V							
标称电容范围 Nominal Capacitance Range(C _R)	1000~7000µF	120Hz, +20°C						
标称电容允许偏差 Allowed Capacitance Tolerance(C _T)	±20%(M)	120Hz, +20°C						
漏电流 Leakage Current(I _L)	I _L ≤ 0.01 C _R U _R (µA)或5(mA),取较小值 (Whichever is smaller)							
损耗角正切值 Tangent of loss angle(Tanδ)	≤0.15	+20°C after 5 minutes Max. 120Hz, +20°C						
低温特性 Characteristics at low temperature	<table border="1"> <thead> <tr> <th>U_R(V)</th> <th>100</th> <th>250</th> </tr> </thead> <tbody> <tr> <td>Z_{-25°C} / Z_{+20°C}</td> <td>3</td> <td>5</td> </tr> </tbody> </table>	U _R (V)	100	250	Z _{-25°C} / Z _{+20°C}	3	5	Max. 120Hz
U _R (V)	100	250						
Z _{-25°C} / Z _{+20°C}	3	5						
高温贮存 Shelf Life	+105°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 +105°C, U _R 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 within ±20% of initial value 损耗角正切值 Tanδ : ≤2倍初始规定值 Not more than 200% of specified value 漏电流 Leakage current : ≤初始规定值 Not more than 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)	4000h	> 200000h	2000h	2000h
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(Capacitance Change)	±30%初始测量值内 Within ±30% initial value		±20%初始测量值内 Within ±20% 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倍初始规定值 Not more than 200% of specified value	≤1.3倍初始规定值 Not more than 130% of specified value
应用条件(Condition)	U _R	U _R	U _R	U _R
应用电压(Applied Voltage)	I _R	1.4×I _R	I _R	I _R =0
应用电流(Applied Current)	105°C	40°C	105°C	105°C
应用温度(Applied Temperature)	≤1%	≤1%	0%	0%
失效率(Outlier Percentage)				

频率系数 Frequency Coefficient

Frequency (Hz) \ U _R (V)	50	100 (120)	300	1k	3K	10K	≥20K
100	0.95	1.00	1.06	1.16	1.22	1.30	1.36
250	0.80	1.00	1.10	1.25	1.135	1.50	1.55

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. Ta(°C)

规格特性表
Table of specifications and characteristics

$U_R(V)$	$C_R(\mu F)$	DF_{max} 120Hz 20°C -	ESR_{max} 120Hz 25°C mΩ	ESR_{typ} 120Hz 25°C mΩ	$I_{AC,max}$ 120Hz 105°C A	$\Phi D \times L$ mm×mm
100	1000	0.15	249	74	2.75	35×50
	2000	0.15	124	37	5.4	51×80
	3000	0.15	83	25	7.3	51×100
	4000	0.15	62	18	9.5	63.5×100
	5000	0.15	50	15	11.2	63.5×110
	6000	0.15	41	12	12.8	63.5×120
	7000	0.15	36	11	14.2	63.5×130
250	1000	0.15	249	59	4.2	51×100
	2000	0.15	124	29	6.7	63.5×100
	3000	0.15	83	20	10.3	76×130
	4000	0.15	62	15	12.4	76×145
	5000	0.15	50	12	14.5	76×160
	6000	0.15	41	10	17.1	76×185
	7000	0.15	36	8	20	76×220