

DW

特点 Features

- 保证 150℃1000H. Endurance: 1000H at 150℃.
- 额定电压范围: 25V~63V. Rate Voltage Range:25V~63V.
- 1000 小时超高温品: 1000H Ultrahigh tempearture TYPE
- 满足 AEC-Q200 要求.AEC-Q200 Compliant



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics					
类别温度范围 Category Temperature Range	-55℃~-+150℃					
额定电压范围 Rated Voltage(U _R)	25V~63V					
标称电容量范围 Nominal Capacitance Range(C _R)	33uF~270uF					120HZ,+20℃
标称电容量允许误差 Allowed Capacitance Tolerance(C _T)	± 20% (M)					120HZ,+20℃
漏电流 Leakage Current(I _L)	≤0.01C _R V _R					+20℃ After 2 minutes
损耗角正切值 Tangent of loss angle (Tan δ)	U _R	25V	35V	50V	63V	Max.
	Tan δ	0. 14	0. 12	0. 1	0. 08	120HZ,+20℃
等效串联电阻 Equivalent Series Resistance(ESR)	参照规格表 Reference parameter table					Max. 100KHZ,+20℃
低温特性 Characteristics at low Temperature	Z _{-25℃} /Z _{+20℃} ≤1.5 Z _{-55℃} /Z _{+20℃} ≤2.0					Max. 100KHZ
耐久性 Load life	在 150℃环境中，不超过额定电压的范围下叠加额定纹波电流，连续加载额定电压 1000 小时后，待温度恢复到 20℃进行测量时，应满足以下要求。 The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 1000 hours at 150℃					
	电容量变化率 Capacitance Change			± 30%初始测量值以内 Within ±30% of the initial measured value		
	损耗角正切 Dissipation Factor			≤ 200% 初始规定值 ≤ 200% of the specified value		
	阻抗 Equivalent Series Resistance			≤ 200% 初始规定值 ≤ 200% of the specified value		
	漏电流 Leakage Current			≤ 初始规定值 ≤ the specified value		
高温贮存 Shelf life	在 150℃±2℃环境中，无负荷放置 1000H 后，待温度恢复到 20℃后进行测试，电容器应满足以下要求： After storage for 1000 hours at +150℃±2℃ with no voltage applied and then being stabilized at +20℃ the capacitor shall meet the following requirement:					
	电容量变化率 Capacitance Change			± 30%初始测量值以内 Within ±30% of the initial measured value		
	损耗角正切 Dissipation Factor			≤ 200% 初始规定值 ≤ 200% of the specified value		
	损耗角正切 Dissipation Factor			≤ 200% 初始规定值 ≤ 200% of the specified value		
	漏电流 Leakage Current			≤ 初始规定值 ≤ the specified value		

※当产生疑问的时候, 用以下电压处理后测定。
电压处理: 105℃下, 连续加载 120 分钟的电压。加载电压为额定电压。
When in doubt, apply the following voltage treatment and measure.
Voltage processing: under the condition of 105℃ ambient temperature, continuous load voltage of 120 minutes.Load voltage is rated voltage.

Technical drawing of a 22 25V DU capacitor. The left view is a top view showing a circular capacitor with a red half. Labels include "电压" (Voltage) pointing to the top terminal, "系列" (Series) pointing to the "22 25V DU" marking, and "电容量" (Capacitance) pointing to the "22" marking. The right view is a side view showing the capacitor's profile with dimensions: $\varnothing \pm 0.5$ (diameter), L (length), 0.3 MAX (top flange thickness), $B \pm 0.2$ (base thickness), $C \pm 0.2$ (positive terminal thickness), 0.5 MAX (negative terminal thickness), E (terminal spacing), $A \pm 0.2$ (total height), and H (base height). Labels include "座板" (Base plate), "正极" (Positive terminal), and "负极" (Negative terminal).

	8×10.5	10×10.5
A	2.9	3.2
B	8.3	10.3
C	8.3	10.3
E (±0.2)	3.1	4.5
L (±0.5)	10.5	10.5
H	0.8~1.1	

Rated Volt. (V)	Capacitance (μ F)	Size Φ D(mm) $\times$ L(mm)	Tan δ ($\angle$ 120HZ,20 $^{\circ}$ C)	LC (μ A)	ESR	Rated R. C.(mA / rms)
					(m Ω / at 100k~300kHz 20 $^{\circ}$ C max)	(150 $^{\circ}$ C 100kHz)
25	150	8 $\times$ 10. 5	0. 14	37. 5	27	800
25	270	10 $\times$ 10. 5	0. 14	67. 5	20	1000
35	100	8 $\times$ 10. 5	0. 12	35	30	770
35	150	10 $\times$ 10. 5	0. 12	52. 5	23	950
50	56	8 $\times$ 10. 5	0. 1	28	35	700
50	100	10 $\times$ 10. 5	0. 1	50	28	900
63	33	8 $\times$ 10. 5	0. 08	20. 8	40	650
63	56	10 $\times$ 10. 5	0. 08	35. 3	30	840

Frequency(KHZ)	0.1≤Freq. ≤0.5	0.5<Freq. ≤1	1<Freq. ≤5	5<Freq. ≤10	10<Freq. ≤50	50<Freq. ≤100	100<Freq. ≤300
Coefficient (Kf)	0.1	0.3	0.4	0.6	0.75	0.9	1