

HU New!
series

- Large CAP low ESR, high ripple current 大容量, 低等效串联电阻, 耐高纹波电流
- Load life of 4000 hours at 125°C 工作寿命 125°C-4000 小时
- Compliant to the RoHS2.0 directive 符合 RoHS2.0 规范
- Compliant to AEC-Q200, contact us for more information 符合 AEC-Q200 标准, 详情请另行咨询



Specifications 系列参数

Items 项目	Characteristics 特性	
Rated Voltage Range 额定电压范围	25V ~ 63V DC	
Capacitance Range 容量范围	56 ~ 1000µF	
Capacitance Tolerance 容量偏差	M : ±20%	
Operating Temp. Range 工作温度范围	-55°C ~ +125°C	
Dissipation Factor 损耗角正切	Not to exceed the value specified 不超过规格值	
Leakage Current 漏电流	$I \leq 0.01CV$ (after 2 minutes) 充电 2 分钟后测试漏电流不超过 $0.01 \times (\text{静电容量 } \mu\text{F}) \times (\text{额定电压 } V)$	
ESR (100K~300KHz) 等效串联电阻	Not to exceed the value specified 不超过规格值	
Endurance: 125°C, 4000h Rated voltage applied (with the rated ripple current) 寿命: 125°C, 4000 小时 加载额定电压 (叠加额定纹波电流)	Capacitance Change 容量变化	Within ±30% of the value before test 初始值±30%以内
	Dissipation Factor 损耗角正切	Not to exceed 200% of the value specified 不超过 2 倍规格值
	ESR 等效串联电阻	Not to exceed 200% of the value specified 不超过 2 倍规格值
	Leakage current 漏电流	Not to exceed the value specified 不超过规格值
Moisture Resistance 85°C, RH85%, 2000h, Rated voltage applied 耐湿性 85°C, RH85% 加载额定电压连续工作 2000 小时	Capacitance Change 容量变化	Within ±30% of the value before test 初始值±30%以内
	Dissipation Factor 损耗角正切	Not to exceed 200% of the value specified 不超过 2 倍规格值
	ESR 等效串联电阻	Not to exceed 200% of the value specified 不超过 2 倍规格值
	Leakage Current 漏电流	Not to exceed the value specified 不超过规格值

Dimensions 尺寸 (Unit单位:mm)

Standard
标准产品

ΦD	L	W	H	C	P	R	T ₁ 、T ₂
8	10.5	8.3	8.3	9.0	3.2	0.8~1.1	0.2max.
10	10.5	10.3	10.3	11.0	4.6	0.8~1.1	0.2max.
10	12.8	10.3	10.3	11.0	4.6	0.8~1.1	0.2max.
10	16.5	10.3	10.3	11.0	4.6	0.8~1.1	0.2max.

Anti-vibration
耐振产品

ΦD	L	W	H	C	P	R	M	N	S	T ₁ 、T ₂
8	10.5	8.3	8.3	9.0	3.2	0.8~1.1	1.35	0.7	5.40	0.2max.
10	10.5	10.3	10.3	11.0	4.6	0.8~1.1	1.35	1.0	6.74	0.2max.
10	12.8	10.3	10.3	11.0	4.6	0.8~1.1	1.35	1.0	6.74	0.2max.
10	16.5	10.3	10.3	11.0	4.6	0.8~1.1	1.35	1.0	6.74	0.2max.

Capacitance List 容量对照表

SIZE \ W.V (S.V)	25 (31)	35 (44)	50 (63)	63 (79)
8×10.5	220 ~ 390 μ F	100 ~ 270 μ F	47 ~ 100 μ F	33 ~ 56 μ F
10×10.5	270 ~ 560 μ F	180 ~ 390 μ F	68 ~ 120 μ F	47 ~ 82 μ F
10×12.8	390 ~ 680 μ F	270 ~ 560 μ F	82 ~ 180 μ F	56 ~ 120 μ F
10×16.5	560 ~ 1000 μ F	330 ~ 680 μ F	100 ~ 270 μ F	82 ~ 150 μ F

Characteristics List 规格特性表

W.V. 工作电压 (V)	Capacitance 容量 (μ F)	tg δ 损耗角正切 (120Hz, 20°C)	ESR 等效串联电阻 (m Ω , 100kHz)	Rated Ripple Current 额定纹波电流 (125°C, mA, r.m.s)	Size 尺寸 Φ D×L(mm)	Part Number 物料编码
25	390	0.10	22	2900	8×10.5	PHU391M025F1ETR□□□□
	560	0.10	18	3200	10×10.5	PHU561M025G1ETR□□□□
	680	0.10	14	3500	10×12.8	PHU681M025G1DTR□□□□
	1000	0.10	11	4000	10×16.5	PHU102M025G1HUR□□□□
35	270	0.10	27	2900	8×10.5	PHU271M035F1ETR□□□□
	390	0.10	20	3200	10×10.5	PHU391M035G1ETR□□□□
	560	0.10	14	3500	10×12.8	PHU561M035G1DTR□□□□
	680	0.10	11	4000	10×16.5	PHU681M035G1HUR□□□□
50	100	0.10	27	2100	8×10.5	PHU101M050F1ETR□□□□
	120	0.10	25	2700	10×10.5	PHU121M050G1ETR□□□□
	180	0.10	17	3200	10×12.8	PHU181M050G1DTR□□□□
	270	0.10	13	3700	10×16.5	PHU271M050G1HUR□□□□
63	56	0.08	29	1800	8×10.5	PHU560M063F1ETR□□□□
	82	0.08	27	2200	10×10.5	PHU820M063G1ETR□□□□
	120	0.08	19	3000	10×12.8	PHU121M063G1DTR□□□□
	150	0.08	15	3500	10×16.5	PHU151M063G1HUR□□□□

* For the last 4 digits of the part number, please refer to the part number system on page 178.

物料编码的最后 4 位，请参考 178 页物料编码系统。

Frequency Coefficient for Ripple Current 纹波电流频率系数

Frequency 频率	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<50KHz	50KHz≤freq.<100KHz	100KHz≤freq.<1000KHz
Coefficient 系数 (C≤47 μ F)	0.05	0.25	0.55	0.80	1.00
Coefficient 系数 (47 μ F < C ≤ 1000 μ F)	0.05	0.30	0.70	0.85	1.00
Coefficient 系数 (C > 1000 μ F)	0.10	0.33	0.85	1.00	1.00