

UH series

- High temperature, high ripple current at high frequency.
- Specially designed for electronic ballast and energy saving lamp.
- Load life: 2000~3000 hours
- AEC-Q200 Compliant
- RoHS Compliant



SPECIFICATIONS

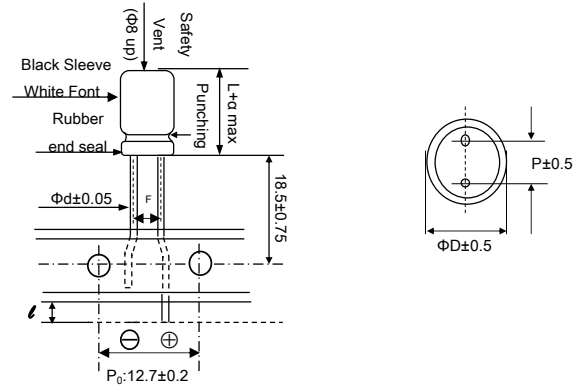
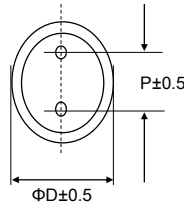
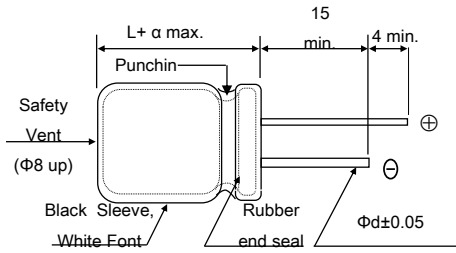
Items	Characteristics											
Capacitance Tolerance	±20% (120Hz, 20°C)											
Operating Temperature Range	-40°C ~ +130°C				-40°C ~ +130°C				-25°C ~ +130°C			
Rated Voltage Range	10 ~ 100VDC				160 ~ 250VDC				350 ~ 450VDC			
Leakage Current	I ≤ 0.01CV or 3(µA), which is greater. (After 2 minutes application of DC rated voltage at 20°C)						I ≤ 0.03CV + 20(µA) (After 3 minutes application of DC rated voltage at 20°C)					
Dissipation Factor (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C											
	Rated Voltage(V)	10	16	25	35	50	63	100	160	200	250	350~450
	tan δ (Max)	0.20	0.16	0.14	0.12	0.10	0.10	0.10	0.15	0.20	0.20	0.24
	When nominal capacitance over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.											
Low Temperature Stability	Measurement Frequency: 120Hz											
Impedance Ratio(Max)	Rated Voltage(V)	10	16	25	35	50	63	100	160	200	250	350~450
	Z(-25°C) / Z(20°C)	3	2	2	2	2	2	3	3	3	3	6
	Z(-40°C) / Z(20°C)	8	6	4	4	4	4	4	6	6	6	-
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 3000 hours (ΦD≤8: 2000 hours) at 130°C.											
	Capacitance Change		within ±25% of Initial Value									
	tan δ		200% or less of Initial Specified Value									
	Leakage Current		Initial Specified Value or less									
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours 130°C without voltage applied. Before the measurement, the capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.											
	Capacitance Change		Within ±25% of Initial Value									
	tan δ		200% or less of Initial Specified Value									
	Leakage Current		Initial Specified Value or less									
Standards	JIS C 5101-4 (IEC 60384)											

Frequency Coefficient of Permissible Ripple Current

Rated Voltage(V)	Capacitance(µF)	Frequency (Hz)			
		50	120	1K	≥ 10K
≤ 100	< 100	0.50	0.70	0.85	1.00
	100~1500	0.65	0.75	0.90	1.00
	> 1500	0.75	0.80	0.95	1.00
≥ 160	1.8~5.6	0.20	0.40	0.80	1.00
	6.8~100	0.40	0.75	0.90	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

DIMENSIONS(mm)



ΦD	8	10	10
L	12	13	16
α	1.0	1.0	2.0
P	3.5	5.0	5.0
Φd	0.5	0.6	0.6

ΦD	8	8
L	12	12
α	1.0	1.0
P	3.5	3.5
F +0.8	3.5	5.0
ℓ	1.0	1.0
Φd	0.5	0.5

Electric Characteristics

Su'scon P/N	Cap. (uF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. (°C)	Nominal Case Size D*L(mm)	Leakage Current Max (uA)	D.F. MAX (%)	R.C 100K Hz (mA rms)	IMP 100KHz at 25°C(Ω)Max	Load Life (hours)
UH050M100F12PE50S00A	10	±20	50	63	130	8*12	5	10	200	0.6	2000
UH050M470F12PE50S00A	47	±20	50	63	130	8*12	23	10	300	0.28	2000
UH025M221F12PE50S00A	220	±20	25	32	130	8*12	55	14	360	0.22	2000
UH035M101F12PE50S00A	100	±20	35	44	130	8*12	35	12	360	0.22	2000
UH063M470G13PE50S00A	47	±20	63	79	130	10*13	29	10	400	0.27	2000
UH050M101G13PE50S00A	100	±20	50	63	130	10*13	50	10	520	0.18	2000
UH063M101G16PE50S00A	100	±20	63	79	130	10*16	63	10	450	0.2	2000
UH100M100F12PE50P50A	10	±20	100	125	130	8*12	10	10	200	1.00	2000
UH035M101F12PE50P35A	100	±20	35	44	130	8*12	35	12	360	0.220	2000

REMARKS:

1. Dissipation Factor Test: at 20°C, 120 Hz
2. Capacitance Test: at 20°C, 120 Hz
3. Ripple Current Test: at 130°C, 100K Hz
4. Leakage Current: Initial specified value or less
5. When have characteristic requested: Load life & shelf life test and etc., judgment standard reference to our catalogue.
6. Remarks: Su'scon Part Number with suffix code "A" is specially offered for automotive project, which meets AEC-Q200 standard.

US Contact Information

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UH-REV.1