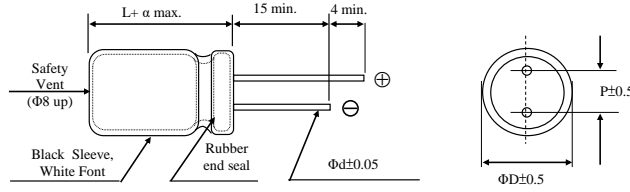


**DONG GUAN KUAN KUN ELECTRONIC CO., LTD**  
 YIN HE INDUSTRIAL ZONE, QING XI TOWN, TEL: +86-769- 87318000  
 DONG GUAN CITY, GUANG DONG CHINA (P.R.O.C) FAX: +86-769- 87318008

**FOR APPROVAL**

**DIMENSIONS(mm)**

ΦD	18
L	25
α	2.0
P	7.5
Φd	0.8



<b>Customer:</b> Ozdisan	<b>Electrolytic Capacitors</b> UH Series	<b>Su'scon</b> Code
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Electric Characteristics:												
Ozdisan	Su'scon	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)
P/N	P/N											
	UH050M182K25PE99S00A	1800	±20	50	63	135	18*25	900	10	2403	0.035	3000

**REMARKS:**

- Leakage Current Test:** 10V ~100V at 20°C for 2 minutes ;160V ~450V at 20°C for 3 minutes.
- Operating temperature:** 10V~250V -40°C~ +135°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test:** at 135°C, 100K Hz ;
- Load Life:** 3,000 hours, subjected to DC voltage with the rated ripple current is applied at 135°C.

**Capacitance Change:** Within±25% of initial value;  
**tanδ:** 200% or less of initial specified value;  
 According to the specified value which stated in the catalogue to do the life testing;

**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 135°C without voltage applide. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.

**Capacitance Change :** Within±25% of initial value;  
**tanδ:** 200% or less of initial specified value;  
**Leakage Current:** Initial specified value or less.

- when have characteristic requested:** Load life & shelf life test and etc. , judgment standard reference to our catalogue.

**●SPECIFICATION**

Voltage Range 工作電壓範圍	10V~100V	160V~450V										
Leakage Current 洩漏電流	$I \leq 0.01CV$ or 3 (uA), Which is greater. (After 2 minutes application of working voltage)	$I \leq 0.03CV + 20(uA)$ . (After 3 minutes application of working voltage)										
Dissipation Factor 散逸因素 (損失角) (tan δ)	Measurement Frequency:120Hz. Temperature:20°C											
	Rate Voltage(V)	10	16	25	35	50	63	100	160	200	250	350~450
	tanδ (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 .											
Standards 參照標準	JIS C-5101-4(IEC 60384)											

**●RIPPLE CURRENT COEFFICIENTS**

Frequency coefficient of allowable ripple current					
Rated Voltage(V)	Capacitance(uF)	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.

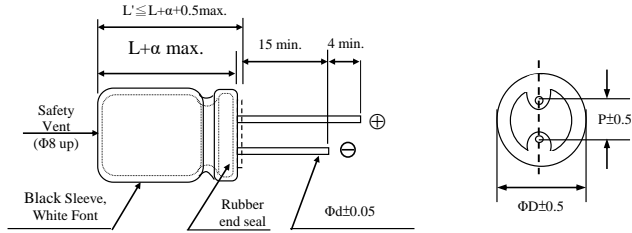
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**FOR APPROVAL**

**DIMENSIONS(mm)**

ΦD	13
L	21
α	2.0
P	5.0
Φd	0.6



Customer:	Ozdisan	Electrolytic Capacitors	Su'scon
		UH Series	Code

Electric Characteristics:												
Ozdisan	Su'scon	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)	Water Rate (%)	Load Life (hours)
P/N	P/N											
	UH050M471121TE99S00A	470	±20	50	63	135	13*21	235	10	773	≤1	5000

**REMARKS:**

- Leakage Current Test:** 10V ~100V at 20°C for 2 minutes ;160V ~450V at 20°C for 3 minutes.
- Operating temperature:** 10V~250V -40°C~ +135°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test:** at 135°C, 100K Hz ;
- Load Life:** 5,000 hours, subjected to DC voltage with the rated ripple current is applied at 135°C.

**Capacitance Change:** Within±25% of initial value;  
**tanδ:** 200% or less of initial specified value;  
 According to the specified value which stated in the catalogue to do the life testing;

**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 135°C without voltage applide. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.

**Capacitance Change :** Within±25% of initial value;  
**tanδ:** 200% or less of initial specified value;  
**Leakage Current:** Initial specified value or less.

- when have characteristic requested:** Load life & shelf life test and etc. , judgment standard reference to our catalogue.

**●SPECIFICATION**

Voltage Range 工作電壓範圍	10V~100V	160V~450V										
Leakage Current 洩漏電流	$I \leq 0.01CV$ or 3 (uA), Which is greater. (After 2 minutes application of working voltage)	$I \leq 0.03CV+20(uA)$ . (After 3 minutes application of working voltage)										
Dissipation Factor 散逸因素 (損失角) (tan δ)	Measurement Frequency:120Hz. Temperature:20°C											
	Rate Voltage(V)	10	16	25	35	50	63	100	160	200	250	350~450
	tanδ (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 .											
Standards 參照標準	JIS C-5101-4(IEC 60384)											

**●RIPPLE CURRENT COEFFICIENTS**

Frequency coefficient of allowable ripple current					
Rated Voltage(V)	Capacitance(uF)	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
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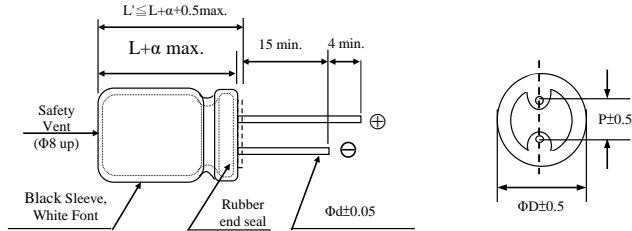
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**DIMENSIONS(mm)**

ΦD	16
L	25
α	2.0
P	7.5
Φd	0.8



<b>Customer:</b>	<b>Electrolytic Capacitors</b>	<b>Su'scon</b>
Ozdisan	<b>UH Series</b>	<b>Code</b>

Electric Characteristics:												
Ozdisan	Su'scon	Cap.	Cap.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	IMP	Load
P/N	P/N	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	100K Hz	100KHz	Life
	UH050M132J25TE99S00A	1300	±20	50	63	135	16*25	650	10	2500	0.042	3000
			(%)	(V-DC)	(V-DC)	(°C)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25°C (Ω)Max	(hours)

**REMARKS:**

<b>1. Leakage Current Test:</b>	<b>10V ~100V at 20°C for 2 minutes ;160V ~450V at 20°C for 3 minutes.</b>
<b>2. Operating temperature:</b>	<b>10V~250V -40°C~ +135°C ;</b>
<b>3. Dissipation Factor Test:</b>	<b>at 20°C, 120 Hz.</b>
<b>4. Capacitance Test:</b>	<b>at 20°C, 120 Hz.</b>
<b>5. Ripple Current Test:</b>	<b>at 135°C, 100K Hz ;</b>
<b>6. Load Life:</b>	<b>3,000 hours, subjected to DC voltage with the rated ripple current is applied at 135°C.</b>
<b>Capacitance Change:</b>	<b>Within±25% of initial value;</b>
<b>tanδ:</b>	<b>200% or less of initial specified value;</b>
<b>Leakage Current:</b>	<b>Initial specified value or less;</b>
<b>7. Shelf Life:</b>	<b>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours 135°C without voltage applide. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.</b>
<b>Capacitance Change :</b>	<b>Within±25% of initial value;</b>
<b>tanδ:</b>	<b>200% or less of initial specified value;</b>
<b>Leakage Current:</b>	<b>Initial specified value or less.</b>
<b>8. when have characteristic requested:</b>	<b>Load life &amp; shelf life test and etc. , judgment standard reference to our catalogue.</b>

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