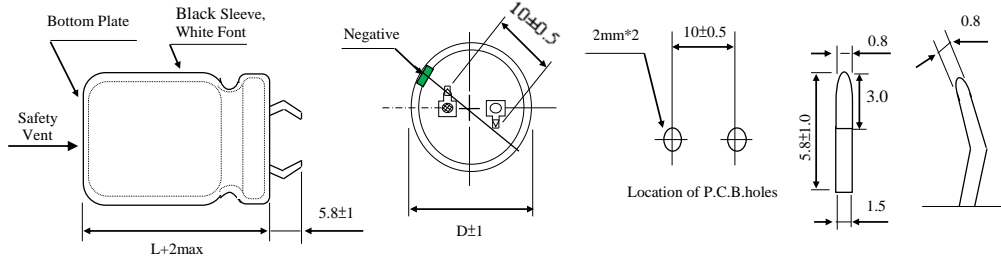


DIMENSIONS(mm)

FOR APPROVAL



Customer : Ozdisan	Electrolytic Capacitors HZ Series
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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 (%)	Max.Ripple Current (A)	Load Life (Hours)
P/N	P/N										
	HZ450M391O300E99YL0A	390	±20	450	500	105	30*30	1256	20	1.35	3000

REMARKS:

- Leakage Current Test:** at 20°C for 5 minutes .
- Operating temperature:** 450V -40°C~ + 105°C.
- Dissipation Factor Test:** at 20°C, 120Hz.
- Capacitance Test:** at 20°C, 120Hz.
- Ripple Current Test:** at 105°C, 120Hz .
- Load Life:** 3000 hours,subjected to DC voltage with the rated ripple current is applied at 105°C.

Capacitance Change: Within ±20% of initial value;
tanδ: 200% or less of initial specified value;
Leakage Current: Initial specified value or less;

7. Shelf Life: The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours 105°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 ±15% of initial value;
tanδ: 200% or less of initial specified value;
Leakage Current: Initial specified value or less.

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

●SPECIFICATION

Leakage Current 洩漏電流	$I \leq 3\sqrt{CV}(\mu A)$, which is greater. (After 5 minutes application of working voltage)										
Dissipation Factor 散逸因素 (損失角)	Measurement Frequency:120Hz. Temperature: 20°C										
(tan δ)	Rate Voltage(V)	16	25	35	50	63	80	100	160	200~250	350~500
	tan δ (MAX)	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.15	0.20
	When nominal capacitance over 1000μF, tanδ shall be added 0.01 to the listed value with increase of every 1000μF .										
Standards 參照標準	AEC-Q200										

●RIPPLE CURRENT COEFFICIENTS

Frequency coefficient of allowable ripple current					
Rated Voltage(V)	Frequency(Hz)				
	50	120	1k	10k	100k
16~100	0.88	1.00	1.05	1.10	1.15
160~250	0.85	1.00	1.20	1.30	1.50
350~500	0.88	1.00	1.20	1.25	1.40

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.
 Production date:2023.12.08