Su'scon

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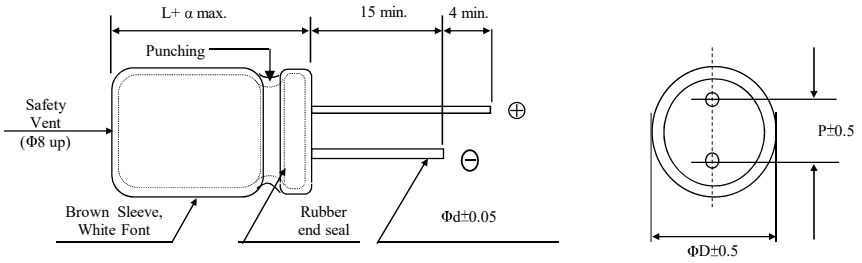
FOR APPROVAL

DIMENSIONS(mm)

ΦD	8
L	12
α	1.0
P	3.5
Φd	0.5



Customer: Ozdisan	Aluminum Electrolytic Capacitors MF Series	Su'scon Code

Electric Characteristics:

Ozdisan P/N	Su'scon P/N	Cap. (uF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. (℃)	Nominal Case Size D*L(mm)	Leakage Current Max (uA)	D.F. MAX (%)	R.C 100KHz (mA rms)	IMP 100KHz at 25℃(Ω)Max	Load Life (H)
	MF025M471F12PKKKS00R	470	±20	25	32	105	8*12	117	14	950	0.095	3000

REMARKS:

1. Leakage Current Test: 6.3V ~100V at 20℃ for 2 minutes ; 160V ~450V at 20℃ for 5 minutes ;

2. Operating temperature: 6.3V~400V -40℃~ +105℃ ; 450V -25℃~ +105℃ ;

3. Dissipation Factor Test: at 20℃, 120 Hz.

4. Capacitance Test: at 20℃, 120 Hz.

5. Ripple Current Test: at 105℃, 100K Hz ;

6. Load Life: 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105℃.
(ΦD≦6.3Φ, 2000hrs; ΦD=8mm, 3000hrs).

Capacitance Change: Within±20% 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;

7. Shelf Life: The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours 105℃ 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±20% of initial value;

tanδ: 150% 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

Voltage Range 工作電壓范圍	6.3~100V	160~450V
Leakage Current 洩漏電流	WV≦100V, I≦0.01CV or 3uA (After 2 minutes application of DC working voltage, at 20℃)	WV>100V, I≦0.03CV+20(uA), (After 5 minutes application of DC working voltage, at 20℃)

Dissipation Factor 散逸因素（損失角正切 (tan δ)

Measurement Frequency:120Hz. Temperature: 20℃

Rate Voltage(V)	6.3	10	16	25	35	50	63~80	100	120~250	350	400	450
tanδ（MAX)	0.20	0.17	0.16	0.14	0.12	0.10	0.08	0.08	0.15	0.20	0.25	0.25

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	100k
6.3~100	10~150	0.60	0.70	0.85	0.95	1.00
	220~1800	0.65	0.75	0.90	0.98	1.00
	2200~15000	0.75	0.80	1.00	1.00	1.00
160~450	1~330	0.55	0.65	0.80	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℃ rise.
When long life performance is required in actual use, the rms ripple current has to be reduced.

Production date:2024.10.22