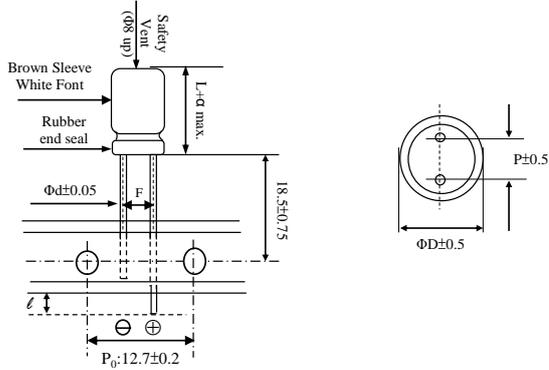


FOR APPROVAL

DIMENSIONS(mm)

ΦD	10
L	16
α	2.0
P	5.0
F ^{+0.8} _{-0.2}	5.0
ℓ	1.0
Φd	0.6



Customer: Ozdisan	Electrolytic Capacitors MF Series	Su'scon 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 100KHz (mA rms)	IMP 100KHz at 25°C (Ω)Max	Load Life (H)
P/N	P/N											
	MF035M471G16PKKKP50A	470	±20	35	44	105	10*16	164	12	1210	0.060	5000

REMARKS:

- Leakage Current Test:** 6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
- Operating temperature:** 6.3V~400V -40°C ~ +105°C ; 450V -25°C ~ +105°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test:** at 105°C, 100K Hz ;
- Load Life:** 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C. (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;

- 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±20% of initial value;
tanδ: 150% 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	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°C)	WV > 100V, I ≤ 0.03CV+20(uA), (After 5 minutes application of DC working voltage, at 20°C)											
Dissipation Factor 散逸因素 (損失角正切)	Measurement Frequency:120Hz. Temperature: 20°C												
(tan δ)	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

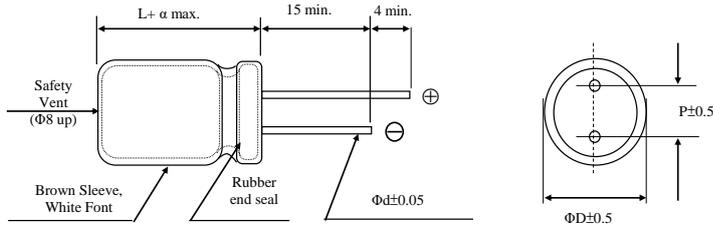
The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

DONG GUAN KUAN KUN ELECTRONIC CO., LTD
 YIN HE INDUSTRIAL ZONE, QING XI TOWN, TEL:+86-769- 7318000
 DONG GUAN CITY, GUAN DONG CHINA (P.R.O.C) FAX:+86-769- 7318008

FOR APPROVAL

DIMENSIONS(mm)

ΦD	10
L	20
α	2.0
P	5.0
Φd	0.6



Customer:	Ozdisan	Electrolytic Capacitors								Su'scon			
		MF Series								Code			

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	100KHz	100KHz	Life
			(%)	(V-DC)	(V-DC)	(°C)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25°C (Ω)Max	(H)
	MF050M331G20PKKKS00A	330	±20	50	63	105	10*20	165	10	1380	0.061	5000

REMARKS:	
1. Leakage Current Test:	6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
2. Operating temperature:	6.3V~400V -40°C ~ +105°C ; 450V -25°C ~ +105°C ;
3. Dissipation Factor Test:	at 20°C, 120 Hz.
4. Capacitance Test:	at 20°C, 120 Hz.
5. Ripple Current Test:	at 105°C, 100K Hz ;
6. Load Life:	5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C. (ΦD≤6.3Φ, 2000hrs; ΦD=8mm, 3000hrs).
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±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 工作電壓範圍	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°C)							WV>100V, I≤0.03CV+20(uA), (After 5 minutes application of DC working voltage, at 20°C)					
Dissipation Factor 散逸因素 (損失角正切)	Measurement Frequency:120Hz. Temperature: 20°C												
(tan δ)	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

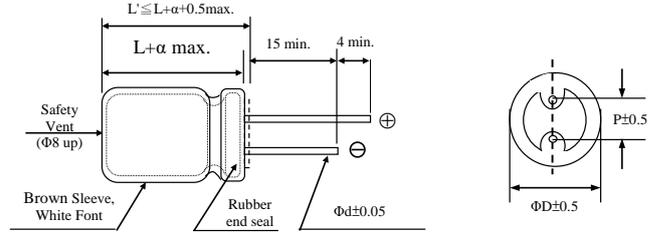
The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.
 When long life performance is required in actual use, the rms ripple current has to be reduced.

Production date:2023.04.17

FOR APPROVAL

DIMENSIONS(mm)

ΦD	13	13	13	18	18
L	21	25	35	25	35
α	2.0	2.0	2.0	2.0	2.0
P	5.0	5.0	5.0	7.5	7.5
Φd	0.6	0.6	0.6	0.8	0.8



Customer: Ozdisan	Electrolytic Capacitors MF Series	Su'scon Code
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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	100KHz	100KHz	Life
			(%)	(V-DC)	(V-DC)	(°C)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25°C (Ω)Max	(H)
	MF050M561I25TKKKS00A	560	±20	50	63	105	13*25	280	10	2124	0.034	5000
	MF050M821I25TKKKS00A	820	±20	50	63	105	13*25	410	10	2124	0.034	5000
	MF050M182I35TKKKS00A	1800	±20	50	63	105	13*35	900	10	3000	0.022	5000
	MF063M471I21TKKKS00A	470	±20	63	79	105	13*21	296	8	1440	0.085	5000
	MF063M561I25TKKKS00A	560	±20	63	79	105	13*25	352	8	1730	0.090	5000
	MF100M471K25TKKKS00A	470	±20	100	125	105	18*25	470	8	1480	0.130	5000
	MF100M561K35TKKKS00A	560	±20	100	125	105	18*35	560	8	2020	0.043	5000

REMARKS:

- Leakage Current Test:** 6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
- Operating temperature:** 6.3V~400V -40°C~ +105°C ; 450V -25°C~ +105°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test:** at 105°C, 100K Hz ;
- Load Life:** 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C. (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°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±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 工作電壓範圍	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°C)							WV > 100V, I ≤ 0.03CV+20(uA), (After 5 minutes application of DC working voltage, at 20°C)					
Dissipation Factor 散逸因素 (損失角正切 (tan δ))	Measurement Frequency:120Hz. Temperature: 20°C												
	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)												

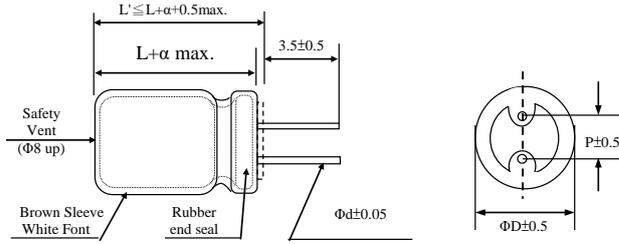
●RIPPLE CURRENT COEFFICIENTS						
Frequency coefficient of allowable ripple current						
Rated Voltage(V)	Capacitance(uF)	Frequency(Hz)				
		50	120	1k	10k	100k
6.3~100	10~150	0.60	0.70	0.85	0.95	1.00
	220~1800	0.65	0.75	0.90	0.98	1.00
	2200~15000	0.75	0.80	1.00	1.00	1.00
160~450	1~330	0.55	0.65	0.80	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°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

FOR APPROVAL

DIMENSIONS(mm)

ΦD	13
L	25
α	2.0
P	5.0
Φd	0.6



Customer: Ozdisan		Electrolytic Capacitors MF Series								Su'scon 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 100KHz (mA rms)	IMP 100KHz at 25°C (Ω)Max	Load Life (H)
P/N	P/N											
	MF050M821I25TKKKC35A	820	±20	50	63	105	13*25	410	10	2124	0.034	5000

REMARKS:

- Leakage Current Test:** 6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
- Operating temperature:** 6.3V~400V -40°C ~ +105°C ; 450V -25°C ~ +105°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test:** at 105°C, 100K Hz ;
- Load Life:** 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C.
(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°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 ±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 工作電壓範圍	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°C)						WV > 100V, I ≤ 0.03CV+20(uA), (After 5 minutes application of DC working voltage, at 20°C)						
Dissipation Factor 散逸因素 (損失角正切)	Measurement Frequency:120Hz. Temperature: 20°C												
(tan δ)	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

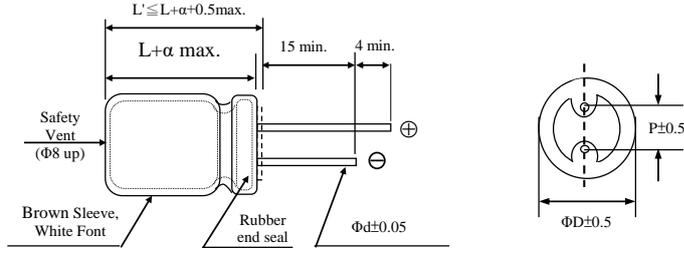
Rated Voltage(V)	Capacitance(uF)	Frequency(Hz)				
		50	120	1k	10k	100k
6.3~100	10~150	0.60	0.70	0.85	0.95	1.00
	220~1800	0.65	0.75	0.90	0.98	1.00
	2200~15000	0.75	0.80	1.00	1.00	1.00
160~450	1~330	0.55	0.65	0.80	0.90	1.00

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

FOR APPROVAL

DIMENSIONS(mm)

ΦD	16	18
L	25	25
α	2.0	2.0
P	7.5	7.5
Φd	0.8	0.8



Customer: Ozdisan	Electrolytic Capacitors MF Series	Su'scon Code
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Electric Characteristics:											
Ozdisan	Su'scon	Cap.	Cap.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	Load
P/N	P/N	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	100KHz	Life
		(%)	(%)	(V-DC)	(V-DC)	(°C)	D*L(mm)	Max (uA)	(%)	(mA rms)	(H)
	MF250M121K25TKKKS00A	120	±20	250	300	105	18*25	920	15	1450	5000
	MF350M820J25TKKKS00A	82	±20	350	400	105	16*25	881	20	1070	5000

REMARKS:

- Leakage Current Test:** 6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
- Operating temperature:** 6.3V~400V -40°C ~ +105°C ; 450V -25°C ~ +105°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test:** at 105°C, 100K Hz ;
- Load Life:** 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C. (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°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±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 工作電壓範圍	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°C)	WV > 100V, I ≤ 0.03CV + 20(uA), (After 5 minutes application of DC working voltage, at 20°C)
Dissipation Factor 散逸因素 (損失角正切 (tan δ))	Measurement Frequency:120Hz. Temperature: 20°C	
	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
	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

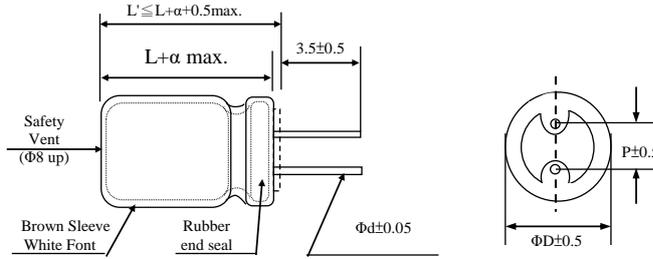
Frequency coefficient of allowable ripple current						
Rated Voltage(V)	Capacitance(uF)	Frequency(Hz)				
		50	120	1k	10k	100k
6.3~100	10~150	0.60	0.70	0.85	0.95	1.00
	220~1800	0.65	0.75	0.90	0.98	1.00
	2200~15000	0.75	0.80	1.00	1.00	1.00
160~450	1~330	0.55	0.65	0.80	0.90	1.00

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

FOR APPROVAL

DIMENSIONS(mm)

ΦD	16
L	25
α	2.0
P	7.5
Φd	0.8



Customer: Ozdisan		Electrolytic Capacitors MF Series								Su'scon 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 100KHz (mA rms)	Load Life (H)
P/N	P/N										
	MF450M470J25TE99C35A	47	±20	450	500	105	16*25	654	25	950	5000

REMARKS:

- Leakage Current Test:** 6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
 - Operating temperature:** 450V -40°C~ +105°C ;
 - Dissipation Factor Test:** at 20°C, 120 Hz.
 - Capacitance Test:** at 20°C, 120 Hz.
 - Ripple Current Test:** at 105°C, 100K Hz ;
 - Load Life:** 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C.
(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°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±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 工作電壓範圍	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°C)					WV > 100V, I ≤ 0.03CV+20(uA), (After 5 minutes application of DC working voltage, at 20°C)						
Dissipation Factor 散逸因素 (損失角正切 (tan δ))	Measurement Frequency:120Hz. Temperature: 20°C											
	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
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

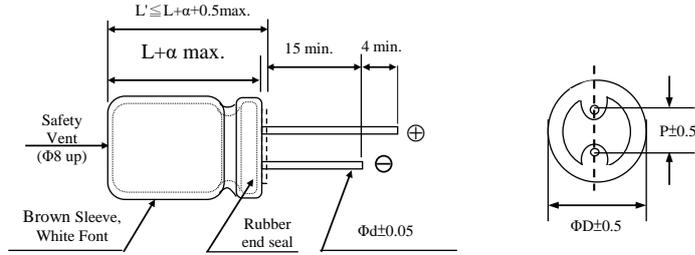
Frequency coefficient of allowable ripple current						
Rated Voltage(V)	Capacitance(uF)	Frequency(Hz)				
		50	120	1k	10k	100k
6.3~100	10~150	0.60	0.70	0.85	0.95	1.00
	220~1800	0.65	0.75	0.90	0.98	1.00
	2200~15000	0.75	0.80	1.00	1.00	1.00
160~450	1~330	0.55	0.65	0.80	0.90	1.00

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

FOR APPROVAL

DIMENSIONS(mm)

ΦD	16
L	25
α	2.0
P	7.5
Φd	0.8



Customer: Ozdisan	Electrolytic Capacitors MF Series	Su'scon 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 100KHz (mA rms)	Load Life (H)
P/N	P/N										
	MF450M470J25TE99S00A	47	±20	450	500	105	16*25	654	25	950	5000

REMARKS:

1. Leakage Current Test:	6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
2. Operating temperature:	450V -40°C ~ +105°C ;
3. Dissipation Factor Test:	at 20°C, 120 Hz.
4. Capacitance Test:	at 20°C, 120 Hz.
5. Ripple Current Test:	at 105°C, 100K Hz ;
6. Load Life:	5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C. (ΦD ≤ 6.3Φ, 2000hrs; ΦD=8mm, 3000hrs).
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 ±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 工作電壓範圍	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°C)	WV > 100V, I ≤ 0.03CV + 20(uA), (After 5 minutes application of DC working voltage, at 20°C)										
Dissipation Factor 散逸因素 (損失角正切 (tan δ))	Measurement Frequency: 120Hz. Temperature: 20°C											
	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
	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

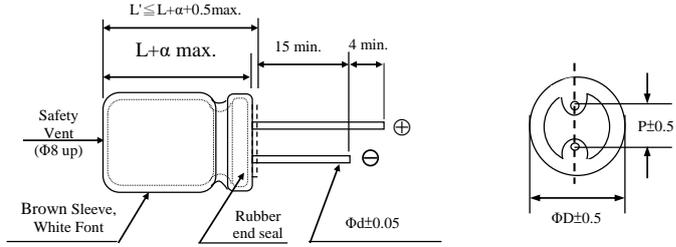
Frequency coefficient of allowable ripple current						
Rated Voltage(V)	Capacitance(uF)	Frequency(Hz)				
		50	120	1k	10k	100k
6.3~100	10~150	0.60	0.70	0.85	0.95	1.00
	220~1800	0.65	0.75	0.90	0.98	1.00
	2200~15000	0.75	0.80	1.00	1.00	1.00
160~450	1~330	0.55	0.65	0.80	0.90	1.00

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

FOR APPROVAL

DIMENSIONS(mm)

ΦD	13
L	25
α	2.0
P	5.0
Φd	0.6



Customer: Ozdisan	Electrolytic Capacitors MF Series	Su'scon Code
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Electric Characteristics:											
Ozdisan P/N	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 100KHz (mA rms)	Load Life (H)
	MF050M821I25TKKKS00A	820	±20	50	63	105	13*25	410	10	2124	5000
	MF063M561I25TKKKS00A	560	±20	63	79	105	13*25	352	8	1730	5000

REMARKS:

1. Leakage Current Test:	6.3V ~100V at 20°C for 2 minutes ; 160V ~450V at 20°C for 5 minutes ;
2. Operating temperature:	6.3V~400V -40°C~ +105°C ; 450V -25°C~ +105°C ;
3. Dissipation Factor Test:	at 20°C, 120 Hz.
4. Capacitance Test:	at 20°C, 120 Hz.
5. Ripple Current Test:	at 105°C, 100K Hz ;
6. Load Life:	5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C. (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°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±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 工作電壓範圍	6.3~100V	160~450V										
Leakage Current 洩漏電流	$WV \leq 100V, I \leq 0.01CV$ or 3uA (After 2 minutes application of DC working voltage, at 20°C)	$WV > 100V, I \leq 0.03CV + 20(uA)$, (After 5 minutes application of DC working voltage, at 20°C)										
Dissipation Factor 散逸因素 (損失角正切 (tan δ))	Measurement Frequency:120Hz. Temperature: 20°C											
	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
	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°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.