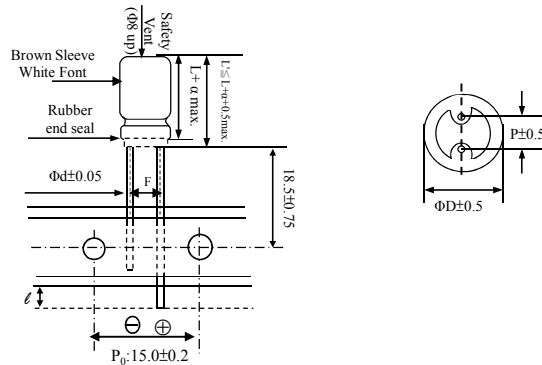


FOR APPROVAL

ΦD	12.5
L	25
α	2.0
P	5.0
F ^{+0.8} _{-0.2}	5.0
ℓ	1.0
Φd	0.6



Customer:		Electrolytic Capacitors								Su'scon		
Melchioni		SG Series								Code		
Electric Characteristics:												
Melchioni	Su'scon	Cap. (uF)	Cap. Tol.	Rate Volt.	Surge Volt.	Oper. Temp.	Nominal Case Size	Leakage Current	D.F. MAX	R.C 100KHz	IMP 100KHz	Load Life
P/N	P/N		(%)	(V-DC)	(V-DC)	(°C)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25°C (Ω)Max	(Hours)
	SG035M102X25TE89P50R	1000	±20	35	44	105	12.5*25	350	12	2770	0.025	5000

REMARKS:												
1. Leakage Current Test:		6.3V ~63V at 20°C for 2 minutes ;										
2. Operating temperature:		6.3V~63V -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. (Φ ≤ 6.3mm, 2000hrs; Φ = 8mm, 3000hrs; Φ = 10mm, 4000hrs)										
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;										
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:		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≤0.01CV(After 2 minutes application of DC working voltage,at 20℃.)							
Dissipation Factor 散逸因素（損失角） (tan δ)	Measurement Frequency:120Hz. Temperature:20℃							
	Rate Voltage(V)	6.3	10	16	25	35	50	63
	tanδ（MAX）	0.22	0.19	0.16	0.14	0.12	0.10	0.09
	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												
Capacitance(uF)		Frequency(Hz)										
≤ 33		50	120	1k	10k	100k						
47~330		0.35	0.40	0.75	0.90	1.00						
470~1000		0.45	0.50	0.85	0.95	1.00						
1200~6800		0.50	0.60	0.90	0.95	1.00						
		0.65	0.80	0.90	0.95	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: 2023.04.20