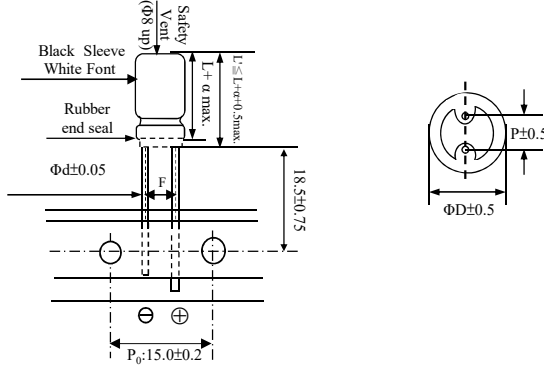


FOR APPROVAL

DIMENSIONS(mm)

ΦD	12.5	12.5
L	20	25
α	2.0	2.0
P	5.0	5.0
F ^{+0.8} _{-0.2}	5.0	5.0
Φd	0.6	0.6



Customer:	Melchioni	Electrolytic Capacitors	Su'scon
		UK Series	Code

Electric Characteristics:

Melchioni	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 120 Hz (mA rms)	Load Life (Hours)
P/N	P/N										
	UK200M470X20TKKKP50R	47	±20	200	250	105	12.5*20	302	20	270	3000
	UK200M470X25TKKKP50R	47	±20	200	250	105	12.5*25	302	20	340	3000

REMARKS:

- Leakage Current Test:** 6.3V ~100V for 2 minutes ; 160V ~500V for 3 minutes ;
- Operating temperature :** 6.3V~400V -40°C~+105°C; 420V~500V -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, 120 Hz ;
- 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;
- 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

Voltage Range 工作電壓範圍	6.3V~100V	160V~250V	350V~500V									
Leakage Current 洩漏電流	I ≤ 0.01CV or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20°C)		I ≤ 0.03CV +20 (μA) (After 3 minutes application of DC rated voltage, at 20°C)									
Dissipation Factor 散逸因素 (損失角) (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C											
	Rate Voltage(V)	6.3	10	16	25	35	50	63	80	100	160~250	350~500
	tanδ (MAX)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08	0.08	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	≥20k
≤ 100	<100	0.75	1.00	1.57	2.00
	100~470	0.80	1.00	1.34	1.50
	>470	0.85	1.00	1.10	1.15
≥ 160	0.47~1000	0.85	1.00	1.40	1.50

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:2024.07.04