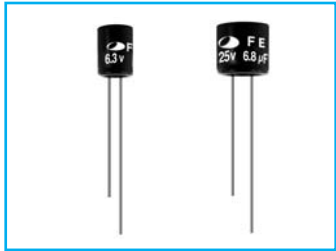


ORGANIC SEMICONDUCTOR SOLID ELECTROLYTIC CAPACITORS

FE Lead type, Height 5mm Series

- Ultra miniature series with 5mm height
- Ideal for use in products such as VCRs, car stereos, etc

APRO-CAP

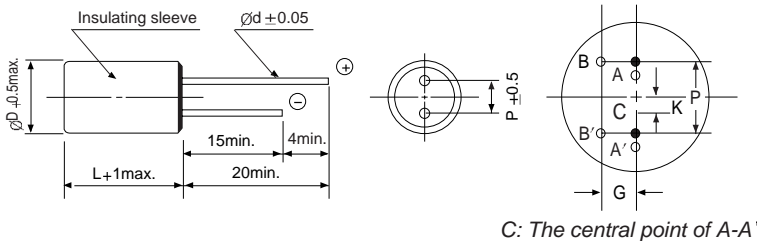


Item	Characteristics	
Operating temperature range	-55 ~ +105°C	
Leakage current max.	Not more than the values in Table 1	
Capacitance tolerance	±20% at 120Hz, 20°C	
Dissipation factor max.	≤ 0.07 at 120Hz, 20°C	
ESR	Not more than the values in Table 1	
Low temperature characteristics (Impedance ratio at 100kHz)	Z-55°C / Z+20°C	Z+105°C / Z+20°C
	0.75 ~ 1.25	0.75 ~ 1.25
Load life * (after application of the rated voltage for 2000 hours at 105°C)	Leakage current	Less than specified value
	Capacitance change	Within ±20% of initial value
	tan δ	Less than 150% of specified value
Moisture resistance (after leaving capacitors under no load at 60°C for 1000 hours 90~95% R.H.)	Leakage current	Less than specified value
	Capacitance change	Within ±20% of initial value
	tan δ	Less than 200% of specified value

- * Note: 1. To use an APRO-CAP when the operating temperature exceeds 85°C on a component with a rated voltage of 25V, reduce the voltage by 0.25V for every degree (1°C) relative to the value 85°C (25V).
 2. If any doubt arises, measure the current after applying voltage (voltage treatment) for 30 minutes at 105°C. The rated voltage should be applied for 6.3 to 20WV, while a temperature reduction voltage should be applied for 25WV.

● DRAWING (Unit : mm)

● PART NUMBER SYSTEM (See Page 50)



∅D × L	Code	P	∅d	G max.	K max.
4.5 × 5	04005	1.5 ± 0.5	0.45	0.5	0.5
5 × 5	05005	2.0 ± 0.5	0.45	0.5	0.5
6.3 × 5	6L005	2.5 ± 0.5	0.45	0.5	0.5
8 × 5	08005	3.5 ± 0.5	0.50	0.8	0.8

● DIMENSIONS

µF \ WV	4	6.3	10	16	25
1.0					4 × 5
1.5					4 × 5
2.2				4 × 5	5 × 5
3.3				4 × 5	5 × 5
4.7			4 × 5	5 × 5	6.3 × 5
6.8		4 × 5	5 × 5	5 × 5	6.3 × 5
10		5 × 5	5 × 5	6.3 × 5	
15		5 × 5	6.3 × 5	6.3 × 5	8 × 5
22		6.3 × 5	6.3 × 5		
33		6.3 × 5	6.3 × 5		
47		6.3 × 5	6.3 × 5	8 × 5	
68		8 × 5	8 × 5		
100		8 × 5			
150	8 × 5				

FE Series

● Table1. FE Series Characteristics List

WV	uF	øD(mm)	L(mm)	ESR(mΩ)max. at 20°C 100~300kHz	Ripple current(mA rms) at 45°C, 100kHz	Leakage Current(μA)(max.) after 2minutes
4	150	8	5	60	2000	12.00
6.3	6.8	4	5	350	560	0.86
6.3	10	5	5	150	780	1.26
6.3	15	5	5	120	815	1.89
6.3	22	6.3	5	80	1270	2.77
6.3	33	6.3	5	80	1320	4.16
6.3	47	6.3	5	70	1430	5.92
6.3	68	8	5	65	1550	8.57
6.3	100	8	5	65	1600	12.60
10	4.7	4	5	400	540	0.94
10	6.8	5	5	180	745	1.36
10	10	5	5	150	780	2.00
10	15	6.3	5	100	1230	3.00
10	22	6.3	5	80	1270	4.40
10	33	6.3	5	80	1350	6.60
10	47	6.3	5	70	1430	9.40
10	68	8	5	65	1600	13.60
16	2.2	4	5	400	450	0.70
16	3.3	4	5	400	500	1.06
16	4.7	5	5	250	720	1.50
16	6.8	5	5	180	745	2.18
16	10	6.3	5	100	1150	3.20
16	15	6.3	5	100	1230	4.80
16	47	8	5	70	1550	15.04
25	1	4	5	450	430	0.50
25	1.5	4	5	400	435	0.75
25	2.2	5	5	250	695	1.10
25	3.3	5	5	250	700	1.65
25	4.7	6.3	5	100	1130	2.35
25	6.8	6.3	5	100	1140	3.40
25	15	8	5	75	1400	7.50