

# CONDUCTIVE POLYMER ALUMINUM ELECTROLYTIC CAPACITORS

**FN** Chip type, Height 4.5mmL Series

**Hi-CAP**



- Low ESR, high ripple current
- Designed for surface mounting on Notebook PC
- Complied to the RoHS directive

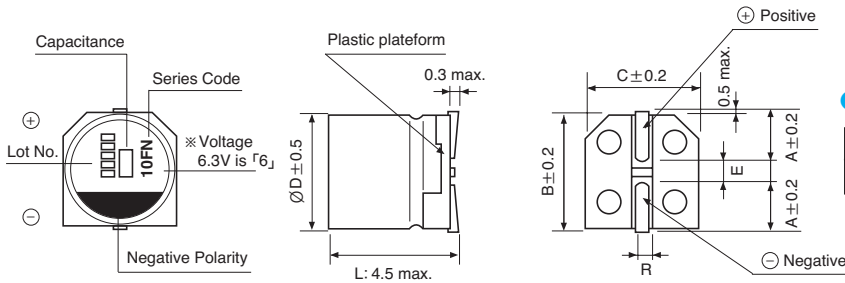


Item	Characteristics	
Operating temperature range	-55 ~ +105°C	
Leakage current max.*	Less than or equal to the value of Table1	
Capacitance tolerance	±20% at 120Hz, 20°C	
Dissipation factor max.	Less than or equal to the value of Table1	
ESR	Less than or equal to the value of Table1	
Temperature characteristics (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 1000 hours at 105°C. In case 25WV is applied 20V)	Leakage current	Less than specified value
	Capacitance change	Within ±20% of initial value
	ESR	Less than 150% of specified value
	tanδ	Less than 150% of specified value
Resistance to soldering heat (Refer to Page 35 for soldering recommendation)	Leakage current	Less than specified value
	Capacitance change	Within ±10% of initial value
	tanδ	Less than 130% of specified value

\* In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

## DRAWING

Unit : mm



## PART NUMBER SYSTEM (See Page 52)

Size	∅D	L	B	C	E	A	R
6.3×4.5	6.3	4.5	6.6	6.6	2.2	2.45	0.5~0.8

Table 1. FN(SMD type) Series Characteristics List

WV	μF	∅D (mm)	L(mm)	ESR(mΩ)max. 100~300kHz	Ripple current (mA rms) at 105°C 100kHz	Dissipation factor 120Hz	Leakage Current (μA)(max.) after 2 minutes
2.5	150	6.3	4.5	38	1710	0.12	188
4	120	6.3	4.5	38	1710	0.12	240
6.3	100	6.3	4.5	40	1670	0.12	315
10	47	6.3	4.5	41	1560	0.12	235
16	22	6.3	4.5	45	1490	0.12	176
20	15	6.3	4.5	55	1650	0.12	150
25	15	6.3	4.5	55	1650	0.12	188

## FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	120Hz	1kHz	10kHz	100~500kHz
Coefficient	0.05	0.3	0.7	1