

## FT Chip type, Guaranteed at 125°C Series

- The FT Series is very reliable, guaranteeing performance
- Suitable for use in smoothing circuits of vehicle-mounted equipment, industrial equipment, etc
- Complied to the RoHS directive

Hi-CAP

FA → FT  
High Temp.

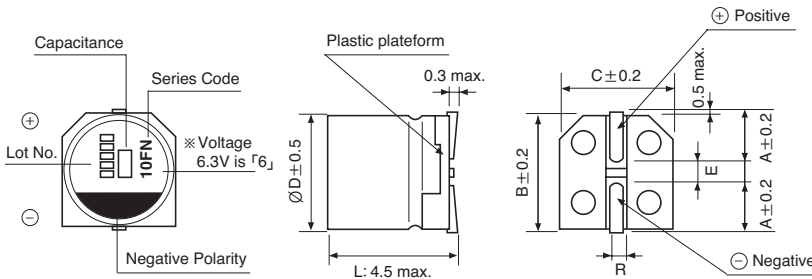


Item	Characteristics	
Operating temperature range	-55 ~ +125°C	
Leakage current max.*	Less than or equal to the value of Table1	
Capacitance tolerance	±20% at 120Hz, 20°C	
Dissipation factor max.	Less than or equal to the value of Table1	
ESR	Less than or equal to the value of Table1	
Temperature characteristics (Impedance ratio at 100kHz)	Z-55°C / Z+20°C	Z+125°C / Z+20°C
	0.75 ~ 1.25	0.75 ~ 1.25
Load life (after application of the rated voltage for 2000 hours at 125°C)	Leakage current	Less than specified value
	Capacitance change	Within ±20% of initial value
	ESR	Less than 200% of specified value
	tanδ	Less than 200% 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 125°C.

### DRAWING

Unit : mm



### PART NUMBER SYSTEM (See Page 52)

Size	∅D	L	B	C	E	A	R
6.3×5.9	6.3	5.9	6.6	6.6	2.2	2.45	0.5~0.8
8×6.9	8	6.9	8.3	8.3	3.2	2.9	0.5~0.8
8×11.9	8	11.9	8.3	8.3	3.2	2.9	0.8~1.1
10×7.9	10	7.9	10.3	10.3	4.6	3.2	0.8~1.1
10×12.6	10	12.6	10.3	10.3	4.6	3.2	0.8~1.1

### Table 1. FT(SMD type) Series Characteristics List

WV	μF	∅D (mm)	L(mm)	ESR(mΩ)max. 100~300kHz	Rated ripple current (100kHz)(mArms) 105°C < Tx ≤ 125°C	Allowable ripple current (100kHz)(mArms) Tx ≤ 105°C	Dissipation factor 120Hz	Leakage Current (μA)(max.) after 2 minutes
10	56	6.3	5.9	45	538	1700	0.12	112
16	82	8	6.9	40	670	2120	0.12	262
25	10	6.3	5.9	65	474	1500	0.10	50
25	22	8	6.9	48	580	1835	0.10	110
25	39	10	7.9	45	664	2100	0.10	195
25	47	8	11.9	30	943	2980	0.12	235
25	82	10	12.6	28	1202	3800	0.12	410
35	8.2	8	6.9	70	400	1300	0.10	57
35	18	10	7.9	60	550	1800	0.10	126
35	22	8	11.9	50	700	2300	0.12	154
35	47	10	12.6	30	1150	3650	0.12	329

### FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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