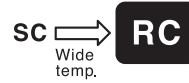


RC Chip type, For Wide Temperature Range Series

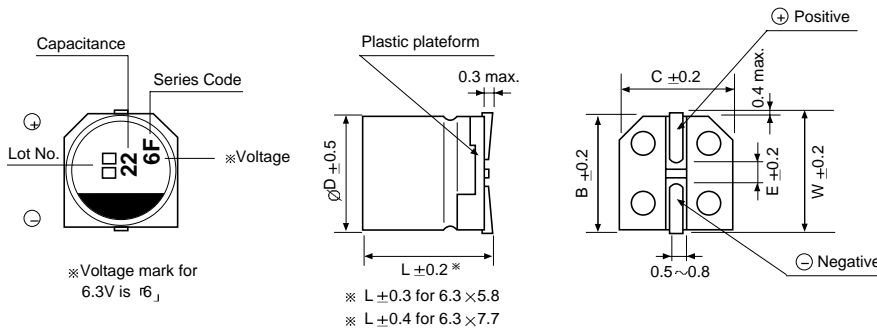
- Wide operating temperature range of -55 ~ +105°C
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape



Item	Characteristics	
Operating temperature range	-55 ~ +105°C	
Leakage current max.	I = 0.01CV or 3 μ A whichever is greater (after 2 minutes)	
Capacitance tolerance	\pm 20% at 120Hz, 20°C	
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3 10 16 25 35 50
	tan δ	0.27 0.23 0.19 0.15 0.13 0.11
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3 10 16 25 35 50
	Z-25°C/Z+20°C	3 3 2 2 2 2
	Z-40°C/Z+20°C	8 5 4 3 3 3
Load life (after application of the rated voltage for 1000 hours at 105°C)	Leakage current	Less than specified value
	Capacitance change	Within \pm 25% of initial value
	tan δ	Less than 200% of specified value
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tan δ are same as load life value.	
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 30 seconds.	
	Leakage current	Less than specified value
	Capacitance change	Within \pm 15% of initial value
	tan δ	Less than specified value

DRAWING

Unit : mm



ϕD	W	B	C	E
4	4.8	4.3	4.3	1.0
5	6.0	5.3	5.3	1.4
6.3	7.1	6.6	6.6	2.2

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF	WV	6.3	10	16	25	35	50
0.1							4 \times 5.3 2.3
0.22							4 \times 5.3 3.4
0.33							4 \times 5.3 4.1
0.47							4 \times 5.3 4.9
1.0							4 \times 5.3 7.2
2.2							4 \times 5.3 10.7
3.3							4 \times 5.3 13.1
4.7					4 \times 5.3 13	4 \times 5.3 14	5 \times 5.3 18.1
10				4 \times 5.3 17	5 \times 5.3 23	5 \times 5.3 24	6.3 \times 5.3 30.8
22	4 \times 5.3	22	5 \times 5.3 27	5 \times 5.3 30	6.3 \times 5.3 39	6.3 \times 5.3 42	6.3 \times 5.8 45
33	5 \times 5.3	31	5 \times 5.3 33	6.3 \times 5.3 43	6.3 \times 5.3 48	6.3 \times 5.8 52	6.3 \times 7.7 60
47	5 \times 5.3	36	6.3 \times 5.3 46	6.3 \times 5.3 51	6.3 \times 5.8 59	6.3 \times 5.8 63	6.3 \times 7.7 63
100	6.3 \times 5.3	50	6.3 \times 5.8 64	6.3 \times 5.8 64	6.3 \times 7.7 91		
220	6.3 \times 7.7	86	6.3 \times 7.7 105	6.3 \times 7.7 105			
330	6.3 \times 7.7	105					

Ripple current (mA rms) at 105°C, 120Hz
Case size $\phi D \times L$ (mm)