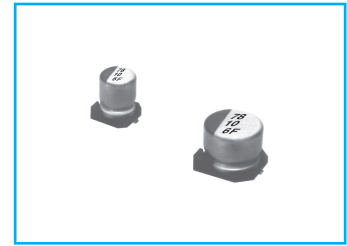
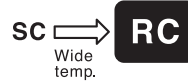


# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

**RC** Chip type, 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
- Complied to the RoHS directive



Item	Characteristics						
Operating temperature range	-55 ~ +105°C						
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)						
Capacitance tolerance	±20% at 120Hz, 20°C						
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50
	tanδ	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-55°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 ±25% of initial value					
	tanδ	Less than 200% of specified value					
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4						
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 10 seconds.						
	Leakage current	Less than specified value					
	Capacitance change	Within ±10% of initial value					
	tanδ	Less than specified value					

● DRAWING (See page 55)

Unit : mm

-Series code of RC is "F"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	6.3	10	16	25	35	50	
0.1						4×5.3	2
0.22						4×5.3	3
0.33						4×5.3	4
0.47						4×5.3	5
1.0						4×5.3	7
2.2						4×5.3	11
3.3						4×5.3	13
4.7					4×5.3	13	18
10				4×5.3	17	5×5.3	24
22	4×5.3	22	5×5.3	27	5×5.3	30	39
33	5×5.3	31	5×5.3	33	6.3×5.3	43	48
47	5×5.3	36	6.3×5.3	46	6.3×5.3	51	59
100	6.3×5.3	50	6.3×5.8	64	6.3×5.8	64	91
220	6.3×7.7	86	6.3×7.7	105	6.3×7.7	105	340
330	6.3×7.7	105	8×10	305	8×10	340	360
470	8×10	330	10×10	340	10×10	470	
1000	10×10	475					

↑ ↑ Ripple current (mA rms) at 105°C, 120Hz  
Case size ØD×L (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz ≤
Coefficient	0.70	1.00	1.17	1.36	1.50