

CFChip type, High Temperature, Long Life,
Series

Long Life



Solvent Proof

- Chip type, high temperature range, for 130°C use
- For ECU
- Application to automatic insertion machine using carrier
- Complied to the RoHS directive

UC $\Rightarrow$
Wide temp
Long life**CF**

Item	Characteristics					
Operating temperature range	-40 ~ +130°C					
Leakage current	I = 0.03CV or 4μA whichever is greater (after 2 minutes)					
Capacitance tolerance	±20% at 120Hz, 20°C					
Dissipation factor max. (at 120Hz, 20°C)	Rated Voltage(V)	10	16	25	35	50
	tanδ	0.32	0.24	0.21	0.18	0.18
Low temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35	50
	Z-25°C/Z+20°C	8	6	4	4	4
	Z-40°C/Z+20°C	12	11	8	6	6
Load life (after application of the rated voltage for 5000 hours at 130°C)	Leakage current		Less than specified value			
	Capacitance change		Within ±30% of initial value			
	tanδ		Less than 300% of the specified value			
	ØD	Ø8×6.2mmL	Ø8×10mmL		ØD ≥ 10	
	Life time	2000 hours	3000 hours		5000 hours	
Shelf life (at 130°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 59)

Unit : mm

-Series code of CF is "H"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μ F \ WV	10		16		25		35		50	
22									8 $\times$ 6.2	28
33							8 $\times$ 6.2	41	8 $\times$ 10	75
47							10 $\times$ 10	90	10 $\times$ 10	90
68			8 $\times$ 6.2	50	8 $\times$ 6.2	45	10 $\times$ 10	105	12.5 $\times$ 13.5	132
100	8 $\times$ 6.2	48	8 $\times$ 10	66	10 $\times$ 10	163	10 $\times$ 10	132	12.5 $\times$ 13.5	167
220	8 $\times$ 10	90	10 $\times$ 10	163	10 $\times$ 10	200	12.5 $\times$ 13.5	249		
330	10 $\times$ 10	125	10 $\times$ 10	200	12.5 $\times$ 13.5	304				
470	10 $\times$ 10	150	12.5 $\times$ 13.5	304						
1000	12.5 $\times$ 13.5	405								

Ripple current (mA rms) at 130°C, 120Hz
Case size $\varnothing D \times L$ (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz $\leq$
Coefficient	0.70	1.00	1.17	1.36	1.50