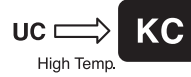


KC Chip type, High Temperature Series



- Chip type, high temperature range, for +135°C use
- 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	-40 ~ +135°C					
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)					
Capacitance tolerance	±20% (20°C, 120Hz)					
Dissipation factor max. (at 120Hz, 20°C)	WV	10	16	25	35	50
	tanδ	0.30	0.23	0.18	0.16	0.16
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	8	6	4	4
Load life (after application of the rated voltage for 2000 hours at 135°C)	Leakage Current	Less than specified value				
	Capacitance Change	Within ±30% of initial value				
	tanδ	Less than 300% of specified value				
Shelf life (at 135°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 60)

-Series code of KC is "C"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF	WV	10			16			25			35			50		
		Case size	ESR (Ω)	Ripple current (mA rms)	Case size	ESR (Ω)	Ripple current (mA rms)	Case size	ESR (Ω)	Ripple current (mA rms)	Case size	ESR (Ω)	Ripple current (mA rms)	Case size	ESR (Ω)	Ripple current (mA rms)
47																
68																
100					8×10	0.20	270	8×10	0.20	270	8×10	0.20	270	10×10	0.20	500
220		8×10	0.20	270	8×10	0.20	270	10×10	0.15	500	10×10	0.15	500			
330		10×10	0.20	270	10×10	0.15	500	10×10	0.15	500						
470		10×10	0.15	500	10×10	0.15	500									

← Ripple current (mA rms) at 135°C, 100kHz
 ↑ ESR (Ω) at 20°C, 100kHz
 ↑ Case size ØD×L(mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz ≤
Coefficient	0.35	0.50	0.64	0.83	1.00