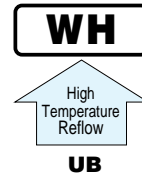


WH Chip Type, High Reliability
High Temperature (260°C) Reflow series



NEW

- Corresponding with 260°C peak reflow soldering
Recommended reflow condition : 260°C peak 5 sec. 230°C over 60 sec. 2 times (φ8×6.2, φ10×10 : 1 time)
- Chip type high temperature range, for +125°C use.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).

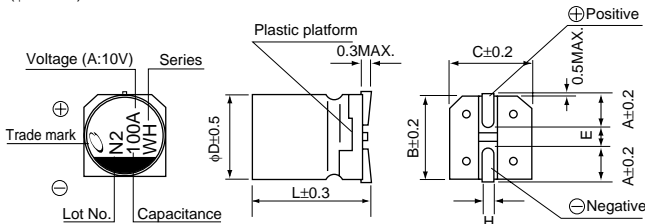


Specifications

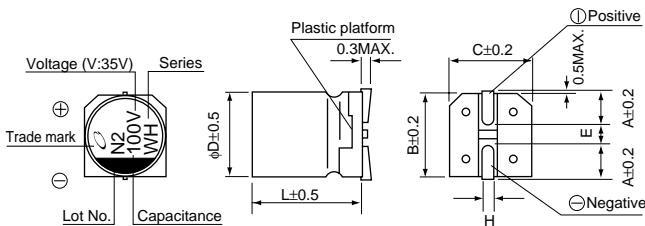
Item	Performance Characteristics					
Category Temperature Range	-40 ~ +125°C					
Rated Voltage Range	10 ~ 50V					
Rated Capacitance Range	10 ~ 330μF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4(μA) , whichever is greater.					
tan δ	Measurement frequency : 120Hz, Temperature : 20°C					
	Rated voltage (V)	10	16	25	35	50
Stability at Low Temperature	Measurement frequency : 120Hz					
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	6	4
Endurance	After 1000 hours' application of rated voltage at 125°C, capacitors meet the characteristic requirements listed at right.				Capacitance change	Within ±30% of initial value
					tan δ	300% or less of initial specified value
Shelf Life	After leaving capacitors under no load at 125°C for 1000 hours, they meet the specified value for endurance characteristics listed above.				Leakage current	Initial specified value or less
					Capacitance change	Within ±10% of initial value
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.				tan δ	Initial specified value or less
					Leakage current	Initial specified value or less
Marking	Black print on the case top.					

Chip Type

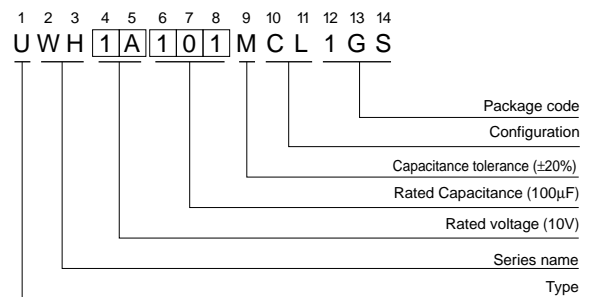
(φ8 × 6.2)



(φ8 × 10, φ10 × 10)



Type numbering system (Example : 10V 100μF)



φ × L	(mm)		
	8 × 6.2	8 × 10	10 × 10
A	3.3	2.9	3.2
B	8.3	8.3	10.3
C	8.3	8.3	10.3
E	2.3	3.1	4.5
L	6.2	10	10
H	0.5 - 0.8	0.8 - 1.1	0.8 - 1.1

Voltage

V	10	16	25	35	50
Code	A	C	E	V	H

● Dimension table in next page.



■Dimensions

φ D × L (mm)

Cap.(μF)	V Code	10		16		25		35		50	
		1A		1C		1E		1V		1H	
10	100									8×6.2	24
22	220									8×6.2	38
33	330							8×6.2	44	8×10	46
47	470					8×6.2	48	8×10	52	10×10	58
100	101	8×6.2	58	8×10	66	8×10	74	10×10	80		
220	221	8×10	90	10×10	102	10×10	116				
330	331	10×10	112							Case size	Rated ripple

Rated Ripple (mA rms) at 125°C 120Hz

●Frequency coefficient of rated ripple current

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

- Taping specifications are given in page 24.
- Recommended land size, soldering by reflow are given in page 25.
- Please refer to page 3 for the minimum order quantity.