HU Series

High voltage, long life

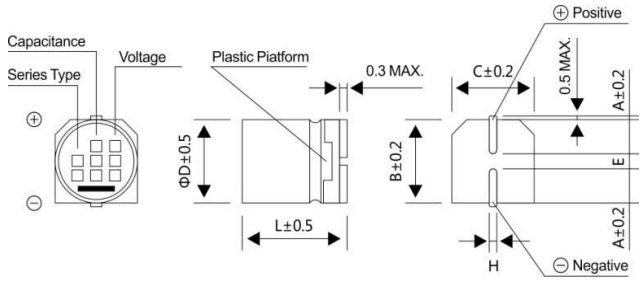
- Operating with wide temperature range -40 ~ +105℃
- Load life of 5000 hours
- RoHS Compliance

KL → Higher Voltage → HU

■SPECIFICATIONS

Item	Characteristics
Operation Temperature Range	-40 ~ +105℃
Voltage Range	160 ~ 450V
Capacitance Range	3.3 ~ 47μF
Capacitance Tolerance	± 20 % (at 120Hz, 20℃)
Leakage Current	WV(V): 160 ~ 450 Time: After 2 minutes (application of rated voltage) L.C.: I≤0.04CV or +100μA, whichever is greater
Dissipation Factor (MAX) (tanδ) (at 120Hz ,20℃)	WV(V): 160~250 / 400, 450 tanδ: 0.15 / 0.20
Low Temp.Impedance Stability at 120Hz	WV(V): 160~250 / 400V, 450 Z(-25℃)/ Z(+20℃): 3 / 6 Z(-40)℃/ Z(+20℃): 6 / 10
Load Life	After 5000hrs. application of the rated voltage at 105℃, they meet the characteristics listed below. Capacitance change: Within ±20% of initial value Dissipation Factor: 200% or less of initial specified value Leakage Current: initial specified value or less
Shelf Life	After leaving capacitors under no load at 105℃ for 1000 hours, they meet the specified value for load life characteristics listed above.
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet the characteristics listed below. Capacitance change: Within ±10% of initial value Dissipation Factor: initial specified value or less Leakage Current: initial specified value or less
Marking	Black print on the case top

■ DRAWING (Unit: mm)



•A pressure relief vent is attached to products over Φ=12.5

■DIMENSIONS (Unit: mm)

ΦDxL	10x13.5	12.5x13.5	12.5x16
A	3.3	4.9	4.9
B	10.4	13.0	13.0
C	10.4	13.0	13.0
E±0.2	4.7	4.7	4.7
L	13.5	13.5	16.0
H	0.9~1.2	0.9~1.2	0.9~1.2

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■ DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV	160		200		250		400		450	
μF \ Code	2C		2D		2E		2G		2W	
3.3	3R3								10x13.5	40
4.7	4R7				10x13.5	65	10x13.5	50	10x13.5	50
10	100		10x13.5	80	10x13.5	105	12.5x13.5	85	12.5x13.5	85
22	220	12.5x13.5	85	12.5x13.5	110	12.5x16	180			
33	330	12.5x13.5	95	12.5x16	220				Case size	Ripple current
47	470	12.5x16	260							

·Case size ΦDxL (mm), ripple current (mA rms) at 105℃, 120Hz

■ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency	~50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	0.80	1.00	1.25	1.40	1.60