

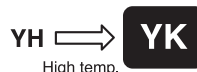
CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS



Chip type, High Temperature Series



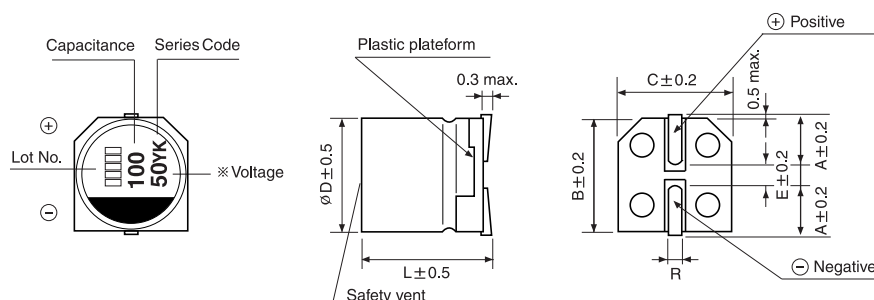
- High temperature compared with YH series
- High temperature range, for 135°C use
- Complied to the RoHS directive
- AEC-Q200 compliant : Please contact us for more details.



Item	Characteristics				
Operating temperature range	-55 ~ +135°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	25	35	50	63
	tanδ	0.14	0.12	0.10	0.08
Low temperature characteristics (Impedance ratio at 100kHz)	Z (-25°C) / Z (+20°C) ≤ 1.5 Z (-55°C) / Z (+20°C) ≤ 2.0				
Load life	After an application of DC bias voltage plus the rated AC ripple current for 4000 hours(2000 hours for ØD=6.3) at 135°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.				
	Capacitance change	Within ±30% of initial value			
	tanδ	Less than 200% of the specified value			
	ESR	Less than 200% of the specified value			
	Leakage current	Less than 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

Unit : mm



$\phi D \times L$	A	B	C	E	R
6.3×7.7	2.4	6.6	6.6	2.2	0.5~0.8
8×10	2.9	8.3	8.3	3.1	0.8~1.1
10×10	3.2	10.3	10.3	4.5	0.8~1.1
10×12.5	3.2	10.3	10.3	4.5	0.8~1.1

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	25			35			50			63		
33										8×10	40	1100
47							8×10	30	1250			
56										10×10	30	1400
68				6.3×7.7	35	1400						
82												
100	6.3×7.7	30	1400				10×10	25	1600			
150				8×10	27	1600						
220												
270	8×10	27	1600	10×10	20	2000						
330	10×10	20	2000	10×12.5	17	2260	← Ripple current (mA rms) at 135°C, 100kHz					
470	10×12.5	16	2260									
ESR (mΩ) at 20°C, 100kHz Case size $\varnothing D \times L$ (mm)												

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	120Hz	1kHz	10kHz	100kHz
Coefficient	0.05	0.30	0.70	1.00