

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

New

YK

Chip type, High Temperature Series

S
Solvent Proof

- 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.

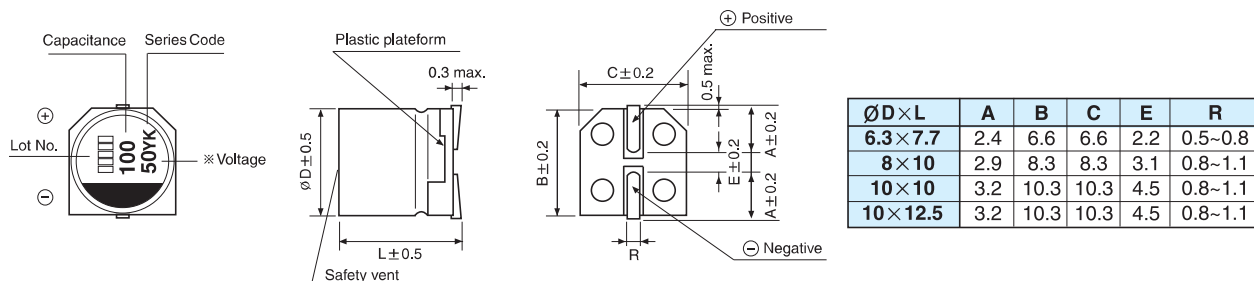
YH $\Rightarrow$ YK
High temp.



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



DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF	WV	25		35		50		63	
33								8 $\times$ 10	40
47						8 $\times$ 10	30	1250	1100
56									
68				6.3 $\times$ 7.7	35	1400		10 $\times$ 10	30
82									
100	6.3 $\times$ 7.7	30	1400			10 $\times$ 10	25	1600	
150				8 $\times$ 10	27	1600			
220									
270	8 $\times$ 10	27	1600	10 $\times$ 10	20	2000			
330	10 $\times$ 10	20	2000	10 $\times$ 12.5	17	2260			
470	10 $\times$ 12.5	16	2260						

Ripple current (mA rms) at 135°C, 100kHz

ESR (m Ω) at 20°C, 100kHz
Case size $\phi D \times L$ (mm)

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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