

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS



Chip type, High Capacitance & High Ripple Current Series



- High ripple current compared with YH series
- High temperature range, for 125°C use
- Complied to the RoHS directive

YH → YM
High ripple

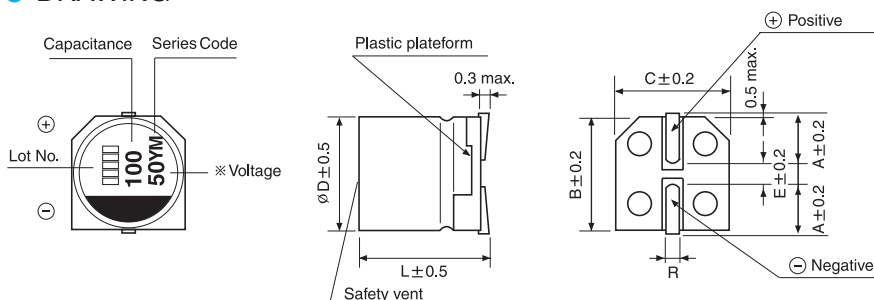


HYBRID TYPES

Item	Characteristics				
Operating temperature range	-55 ~ +125°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	0.1	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 at 125°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 125°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

μ F	WV	25			35			50			63		
47								6.3×7.7	40	1500	8×10	40	1700
82											10×10	30	2000
100					6.3×7.7	35	1700	8×10	30	1700	10×12.5	22	3000
150	6.3×7.7	30	1800		8×10	27	2000	10×10	25	2000			
220								10×12.5	19	3200			
330	8×10	27	2000		10×10	20	2800						
390					10×12.5	17	3500						
560	10×10	20	2800										
680	10×12.5	16	3500										

↑ Ripple current (mA rms) at 125°C, 100kHz
 ↑ ESR (mΩ) 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