CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade

YM Chip type, High Capacitance & High Ripple Current Series

Solvent Proof

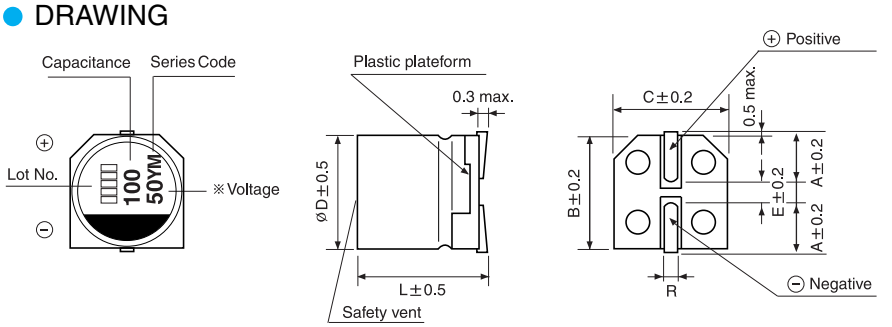
- High ripple current compared with YH series
- High temperature range, for 125˚C use
- Complied to the RoHS directive
- AEC-Q200 compliant : Please contact us for more details.

YH ⇨ YM
High ripple

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: 16 / 25 / 35 / 50 / 63 tanδ: 0.16 / 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



ØD×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	16			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	27	1800	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	8×10	22	2000				10×12.5	17	3500						
560				10×10	20	2800									
680	10×10	18	2800	10×12.5	16	3500									
820	10×12.5	14	3500												

Ripple current (mA rms) at 125˚C, 100kHz
ESR (mΩ) at 20˚C, 100kHz
Case size ØD×L(mm)

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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