

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS



New

YE

Chip type, High Capacitance & High Ripple Current Series

- Large capacitance compared with YM series
- High temperature range, for 125°C use
- Complied to the RoHS directive

YM → **YE**
Downsized

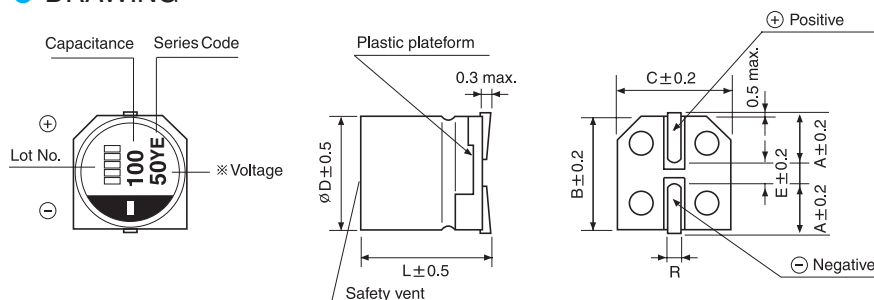


Item	Characteristics		
Operating temperature range	-55 ~ +125°C		
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)		
Capacitance tolerance	±20% at 120Hz, 20°C		
Dissipation factor max. (at 120Hz, 20°C)	WV	25	35
	tanδ	0.14	0.12
Low temperature characteristics (Impedance ratio 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	

HYBRID TYPES

DRAWING

Unit : mm



$\phi D \times L$	A	B	C	E	R
6.3×5.8	2.4	6.6	6.6	2.2	0.5~0.8
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		
68				6.3×5.8	60	1200
100		6.3×5.8	50	1300		
120				6.3×7.7	35	1700
180		6.3×7.7	30	1800		
220				8×10	27	2000
330		8×10	27	2000		
390				10×10	20	2800
470				10×12.5	16	3500
560		10×10	20	2800		
820		10×12.5	16	3500		

Case size $\phi D \times L$ (mm)

ESR (m Ω) at 20°C, 100kHz

← Ripple current (mA rms) at 125°C, 100kHz

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	120Hz	1kHz	10kHz	100kHz
Coefficient	0.10	0.40	0.70	1.00



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