



Chip type, Ultra High Temperature Series

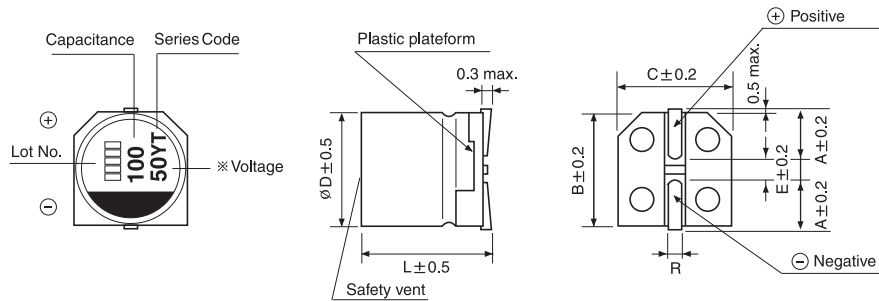


- High temperature range, for 150°C use
- Complied to the RoHS directive

Item	Characteristics				
Operating temperature range	-55 ~ +150°C				
Leakage current max.	I = 0.05CV				
Capacitance tolerance	±20% at 120Hz, 20°C				
Dissipation factor max. (at 120Hz, 20°C)	WV	25	35	50	63
	tanδ	0.16	0.16	0.16	0.16
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 1000 hours at 150°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

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	25		35		50		63	
15							6.3×7.7	80
22					6.3×7.7	80	410	
33							8×10	40
47			6.3×7.7	60	510			610
56					8×10	35	660	10×10
68	6.3×7.7	45	540					30
100				8×10	30	710	10×10	28
150	8×10	27	740	10×10	23	830		780
270	10×10	22	850					

Ripple current (mA rms) at 150°C, 100kHz
ESR (Ω) 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