

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS



Lead type, High Capacitance & High Ripple Current Series



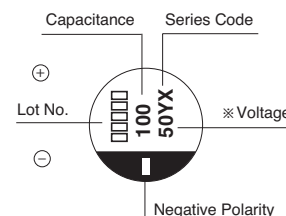
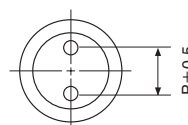
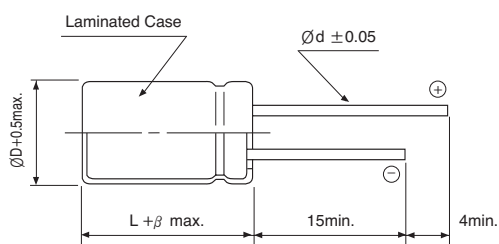
- Large capacitance compared with YL series
- High temperature range, for 125°C use
- Complied to the RoHS directive

YL → YX
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		

DRAWING

Unit : mm



Size	ØD	L	P	Ød	β
6.3×7.5	6.3	7.5	2.5	0.45	1.0
8×9.5	8	9.5	3.5	0.60	1.0
10×9.5	10.0	9.5	5.0	0.60	1.0
10×12	10.0	12.0	5.0	0.60	1.0

PACKING & TAPING (See page 90~92)

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	25			35		
120				6.3×7.5	35	1700
180	6.3×7.5	30	1800			
220				8×9.5	27	2000
330	8×9.5	27	2000			
390				10×9.5	20	2800
470				10×12	16	3500
560	10×9.5	20	2800			
820	10×12	16	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	0.10	0.40	0.70	1.00

