

CY Series Long life, high ripple current

CY 系列

Features

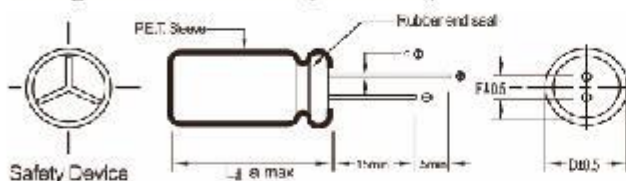
- Load Life: 105°C 8000~10000 hours.
- Suitable for slim application
- High ripple current
- RoHS Compliant



Specifications

Item	Performance Characteristics					
Operating Temp. Range	-25~+105℃					
Rated Voltage Range	250 to 450 VDC					
Capacitance Range	10 to 150 µF					
Capacitance tolerance	±20% (120Hz, 20℃)					
Leakage Current	I ≤ 0.03CV (µA) (After 2 minute with rated working voltage applied.) I = Leakage Current(µA) C = Rated Capacitance V = Rated voltage(V)					
Dissipation Factor(Tan δ) (max, 120Hz, 20℃)	W.V(VDC)	250	350	400	420	450
	D.F(%)	15	15	15	20	20
Low Temp. Characteristics (Max Impedance Ratio)	W.V(VDC)	250	350	400	420	450
	Z(-25℃)/Z(+25℃)	3	8	8	8	8
Load Life	Test conditions Duration time: 8000~10000 hours Ambient temperature: +105℃ Applied voltage: Rated DC working voltage After test reprints at +20℃ Capacitance change: ≤ ±20% of the initial measured value Dissipation factor: ≤ 200% of the initial specified value Leakage current: ≤ the initial specified value					
Shelf Life	Test conditions Duration time: 1000 hrs Ambient temperature: +105℃ Applied voltage: None After test reprints at +20℃ : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes					
Industrial Standard	JIS C-5101-4(IEC 60384-4)					

Diagram of dimensions(cunit:mm)



ΦD	8	10	13
Φd	0.6		
F	3.5	5.0	5.0
L	L+1.5max	L+2.0max	

Multiplier for ripple current vs frequency

Frequency(Hz)		60	120	400	1K	100K
Coefficient	250~350WV	0.8	1.00	1.20	1.30	1.40
	400~450WV	0.8	1.00	1.25	1.40	1.50

Multiplier for ripple current vs temperature

Temp.(℃)	60	85	105
Multiplier	2.0	1.65	1.0

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**● Case Size**

WV(sv) Cap(μF)	250(300)		350(400)		400(450)		420(480)		450(500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
12			8*30	100	8*30	130	8*30	140	8*30	150
15			8*35	130	8*35	180	8*35	170	8*40	190
22	8*35	140	8*40	165	8*45	230	8*50	250	10*30	220
27	8*40	165	10*30	185	10*30	240	10*35	270	10*40	280
	10*30	165								
33	10*30	180	10*35	200	10*35	290	10*40	370	10*40	360
									13*30	370
39	10*35	210	10*40	285	10*40	400	10*45	410	10*50	410
			13*30	285	13*30	400	13*30	390	13*35	420
47	10*40	280	10*45	340	10*45	450	10*50	420	10*50	420
	13*30	260	13*30	330	13*30	440	13*35	450	13*40	480
56	10*45	330	10*50	380	10*50	520	10*60	530	13*45	530
	13*35	330	13*35	360	13*35	500	13*40	520		
68	10*50	380	10*60	450	13*40	580	13*45	580	13*50	620
	13*35	370	13*40	430						
82	10*60	490	13*45	520	13*45	650	13*50	660	13*55	680
	13*40	465								
100	13*45	500	13*50	580	13*50	680				
120	13*50	580								

Ripple Current (mA,rms) at 105°C, 120Hz

- For detail specifications, please refer to Engineering Bulletin