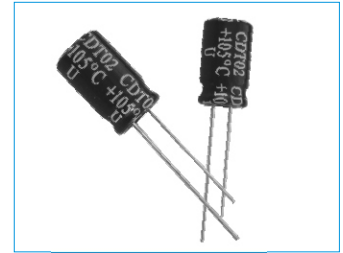


CDT02 Extremely High Ripple Current Series

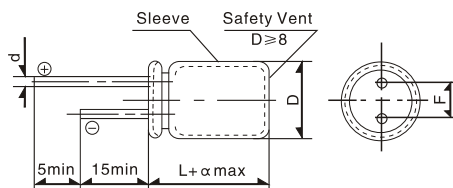
- Extremely high ripple current
- High reliability withstanding 3000 hours load life at 105°C
- Suited for ballast application



Specifications

Item	Characteristics														
Operating Temperature Range	-25°C ~ +105°C														
Rated Voltage Range	160V~400V														
Nominal Capacitance Range	1.0 μ F~100 μ F														
Capacitance Tolerance	M (± 20%); Q(-10%~+30%) (20°C,120Hz)														
Leakage Current	$I \leq 0.02C_R U_R$ (μ A) C_R :Nominal capacitance (μ F) U_R :Rated voltage(V) (20°C, after 5 minutes)														
Dissipation Factor (Max)	$\tan \delta \leq 0.12$ (20°C,120Hz)														
Low Temperature Stability (Impedance Ratio)	$Z(-25^\circ\text{C}) / Z(+20^\circ\text{C}) \leq 7$ (120Hz)														
Load Life	After 3000 hour application of rated voltage with rated ripple current at 105°C, the capacitors shall meet the following requirement: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Capacitance change</td> <td>Within ± 20% of the initial value .</td> </tr> <tr> <td>Dissipation factor</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the initial specified value.</td> </tr> </table>	Capacitance change	Within ± 20% of the initial value .	Dissipation factor	Not more than 200% of the initial specified value.	Leakage current	Not more than the initial specified value.								
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Dissipation factor	Not more than 200% of the initial specified value.														
Leakage current	Not more than the initial specified value.														
Shelf Life	After storage for 1000 hours at +105°C, the capacitors shall meet the requirement of load life above .														
Rated Ripple Current & Frequency Multipliers	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Frequency</td> <td>50Hz</td> <td>120Hz</td> <td>300Hz</td> <td>1kHz</td> <td>10kHz</td> <td>100kHz</td> </tr> <tr> <td>Multiplier</td> <td>0.3</td> <td>0.5</td> <td>0.6</td> <td>0.8</td> <td>0.9</td> <td>1.0</td> </tr> </table>	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz	Multiplier	0.3	0.5	0.6	0.8	0.9	1.0
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Rated Ripple Current & Temperature Multipliers	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Temperature</td> <td>+50°C</td> <td>+70°C</td> <td>+85°C</td> <td>+105°C</td> </tr> <tr> <td>Multipliers</td> <td>2.1</td> <td>1.8</td> <td>1.4</td> <td>1.0</td> </tr> </table>	Temperature	+50°C	+70°C	+85°C	+105°C	Multipliers	2.1	1.8	1.4	1.0				
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Dimensions



D	± 0.5			± 1.0										
	6.3	8	10	12.5		16		18						
L	11	11.5	15	12.5	16	20	20	25	20	25	31.5	35.5	20	25
F ± 0.5	2.5	3.5	5				7.5							
d ± 0.1	0.5	0.6				0.8								
α	1.5				2.0									

CDT02 Series

■ Nominal capacitance, rated voltage, rated ripple current and case size table

UR(V) Item CR(μF)	160		200		250		350		400	
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~
1.0					8×11.5	18			6.3×11.5	18
2.2									8×16	108
3.3	Rated ripple current (mA rms) (105°C, 100kHz)								8×16	108
									8×20	121
4.7			8×11.5	158	10×16	200			10×20	180
6.8			10×16	230	10×16	240			10×20	220
									12.5×20	240
10			10×16	310	10×16	300	10×20	250	10×20	250
									12.5×20	270
15			10×20	400	10×16	380			16×25	400
22	10×20	500	10×20	500	10×20	500	12.5×20	350	12.5×25	400
									16×25	500
33	10×20	500	12.5×20	600	12.5×20	600	16×20	500	16×25	600
									16×31.5	670
47	12.5×20	600	12.5×20	600	12.5×25	700	16×25	650	16×35.5	750
	12.5×25	670			16×25	780			18×25	750
68	12.5×25	750	12.5×25	750	16×25	1000	18×25	800		
			16×20	750	18×35.5	1200				
100	16×25	1100	16×25	1100	18×25	1200				
			18×20	1100						