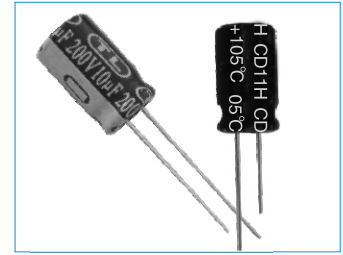


CD11H High Ripple Current Series

- High ripple current
- High reliability withstanding 2000/3000 hours load life at 105°C
- Suited for ballast application

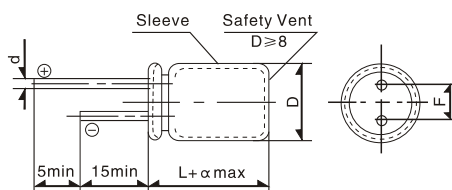


CD11H \Rightarrow **CDT02**
Extremely High Ripple

Specifications

Item	Characteristics												
Operating Temperature Range	-40°C ~ +105°C												
Rated Voltage Range	160V~400V												
Nominal Capacitance Range	3.3 μ F~47 μ F												
Capacitance Tolerance	M ($\pm 20\%$); 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)	$Z(-40^\circ\text{C}) / Z(+20^\circ\text{C}) \leq 14$ (120Hz)												
Load Life	After 2000/3000 hour application of rated voltage with rated ripple current at 105°C, the capacitors shall meet the following requirement: <table border="1"> <tr> <td>Capacitance change</td> <td>Within $\pm 20\%$ 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 $\pm 20\%$ of the initial value .	Dissipation factor	Not more than 200% of the initial specified value.	Leakage current	Not more than the initial specified value.						
Capacitance change	Within $\pm 20\%$ of the initial value .												
Dissipation factor	Not more than 200% of the initial specified value.												
Leakage current	Not more than the initial specified value.												
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"> <tr> <td>Frequency</td> <td>50Hz</td> <td>120Hz</td> <td>300Hz</td> <td>1kHz</td> <td>10kHz</td> </tr> <tr> <td>Multiplier</td> <td>0.75</td> <td>1.00</td> <td>1.20</td> <td>1.35</td> <td>1.50</td> </tr> </table>	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz	Multiplier	0.75	1.00	1.20	1.35	1.50
Frequency	50Hz	120Hz	300Hz	1kHz	10kHz								
Multiplier	0.75	1.00	1.20	1.35	1.50								
Rated Ripple Current & Temperature Multipliers	<table border="1"> <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		
Temperature	+50°C	+70°C	+85°C	+105°C									
Multipliers	2.1	1.8	1.4	1.0									

Dimensions



	(mm)									
D 1.0	10			12.5		13	16			
L	12.5	16	20	20	25	20	25	31.5	35.5	
F ± 0.5	5.0						7.5			
d ± 0.1	0.6						0.8			
α	1.5					2.0				

CD11H 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~
3.3	Rated ripple current (mA rms) (105°C, 120Hz) →						10×12.5	48	10×16	38
4.7					10×16	45	10×16	55	10×20	49
10	10×12.5	78	10×16	78	10×16	82	12.5×20	101	12.5×25	83
22	10×20	123	10×20	123	12.5×20	144	12.5×25	160	16×25	123
33	12.5×20	173	12.5×25	173	12.5×25	173	16×25	187	16×31.5	166
47	12.5×20	230	12.5×25	230	16×25	211	16×31.5	243	16×35.5	209