

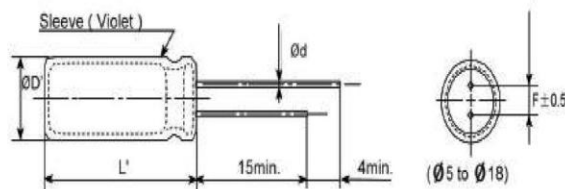
CD288H Series

- Low impedance for high frequency
- Life time: +105°C 3000 hours
- Suit for switching power, UPS, power sources etc
- Sleeve color is Black
- RoHs Compliant

◆ SPECIFICATIONS

Items	Characteristics															
Category	-40℃ to +105℃															
Temperature Range	-40℃ to +105℃															
Rated Voltage Range	6.3 to 450Vdc															
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)															
Leakage Current	I≤0.03CV or 3μA whichever is greater.															
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage(V) (at 20℃ after 5 minutes)															
Dissipation Factor (tan δ)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	tanδ(Max.)	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.08	0.15	0.15	0.15	0.20	0.20	0.20	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase . (at 20℃, 120Hz)															
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (Vdc)	6.3 . 10		16		25 to 100		160 to 250		350 to450						
	Z(-25℃)/Z(+20℃)	7		5		8		8		6		(at 120Hz)				
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 3000 hours at 105℃.															
	Capacitance change	≤±20% of the initial value.														
	D.F. (tan δ)	≤150% of the initial specified value.														
	Leakage current	≤ The initial specified value.														
Shelf Life	The following specifications shall be satisfied when the capacitors performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20℃ after exposing them for 1000hours at 105℃ without voltage applied.															
	Capacitance change	≤±20% of the initial value.														
	D.F. (tan δ)	≤200% of the initial specified value.														
	Leakage current	≤The initial specified value.														

◆ DIMENSIONS [mm]



ϕD	5	6.3	8	10	12.5	16	18
ϕd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
$\phi D'$	$\phi D + 0.5 \text{ max.}$						
L'	$L + 2.0 \text{ max.}$						

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◆ STANDARD RATINGS (Impedance: at 20°C: 100kHz/Ω max, Ripple current: mA_{rms}/105°C: 100kHz)

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Impedance Ω _{max}	Ripple current mA _{rms}
6.3(0J)	33	5×11	0.24	2.5	105
	47	5×11	0.24	1.5	120
	68	5×11	0.24	1.3	125
	100	5×11	0.24	1.2	130
	150	6.3×11	0.24	1.0	150
	220	6.3×11	0.24	0.87	180
	330	6.3×11	0.24	0.58	220
	470	8×12	0.24	0.39	315
	680	10×12.5	0.24	0.35	370
	1000	10×12.5	0.24	0.23	500
	1500	10×20	0.24	0.18	630
	2200	12.5×20	0.26	0.095	1000
	3300	12.5×20	0.28	0.090	1050
	4700	16×25	0.30	0.061	1670
	6800	16×25	0.34	0.056	1740
10(1A)	10000	16×30	0.42	0.045	2110
	15000	18×35	0.52	0.036	2580
	22	5×11	0.20	2.5	92
	33	5×11	0.20	1.9	105
	47	5×11	0.20	1.5	120
	68	5×11	0.20	1.4	125
	100	5×11	0.20	1.2	130
	150	6.3×11	0.20	0.80	160
	220	6.3×11	0.20	0.58	220
	330	8×12	0.20	0.47	265
	470	8×12	0.20	0.39	315
	680	10×12.5	0.20	0.30	400
	1000	10×16	0.20	0.18	615
	1500	10×20	0.20	0.15	810
	2200	12.5×20	0.22	0.090	1050
16(1C)	3300	12.5×25	0.24	0.068	1300
	4700	16×25	0.26	0.056	1740
	6800	16×30	0.30	0.045	2110
	10000	18×35	0.38	0.036	2580
	10	5×11	0.16	2.5	92
	15	5×11	0.16	2.2	98
	22	5×11	0.16	1.9	105
	33	5×11	0.16	1.5	120
	47	5×11	0.16	1.2	130
	68	6.3×11	0.16	1.0	150
	100	6.3×11	0.16	0.58	220
	150	8×12	0.16	0.50	240
	220	8×12	0.16	0.47	290
	330	8×12	0.16	0.39	315
	470	10×12.5	0.16	0.23	500
25(1E)	680	10×16	0.16	0.17	610
	1000	10×20	0.16	0.12	825
	1500	12.5×20	0.16	0.10	1000
	2200	12.5×25	0.18	0.068	1300
	3300	16×25	0.20	0.056	1740
	4700	16×30	0.22	0.045	2110
	6800	18×35	0.26	0.036	2580
	10	5×11	0.10	18.0	10
	0.22	5×11	0.10	13.0	15
	0.33	5×11	0.10	10.0	18
	0.47	5×11	0.10	7.0	23
	0.68	5×11	0.10	6.0	25
	1	5×11	0.10	4.9	35
	1.5	5×11	0.10	4.6	40
	2.2	5×11	0.10	4.2	53
35(1V)	3.3	5×11	0.10	3.9	65
	4.7	5×11	0.10	3.6	82
	6.8	5×11	0.10	3.2	90
	10	5×11	0.10	2.7	100
	15	5×11	0.10	2.2	110
	22	5×11	0.10	1.9	125
	33	6.3×11	0.10	1.1	195
	47	6.3×11	0.10	0.90	245
	68	8×12	0.10	0.70	310
	100	8×12	0.10	0.50	385
50(1H)	15	5×11	0.12	2.5	92
	6.8	5×11	0.12	2.2	98
	10	5×11	0.12	1.9	105
	15	5×11	0.12	1.7	110
	22	5×11	0.12	1.5	120
	33	5×11	0.12	1.2	130
	47	6.3×11	0.12	0.58	220
	68	8×12	0.12	0.50	240
	100	8×12	0.12	0.39	315
	150	10×12.5	0.12	0.30	370
	220	10×12.5	0.12	0.23	500
	330	10×16	0.12	0.18	615
	470	10×20	0.12	0.12	825
	680	12.5×25	0.12	0.10	1000
	1000	12.5×25	0.12	0.068	1300
6.3(0J)	1500	16×25	0.12	0.060	1500
	2200	16×30	0.14	0.045	2110
	3300	18×35	0.16	0.036	2580
	4700	18×35	0.16	0.036	2580
	6800	18×35	0.16	0.036	2580
	10000	18×35	0.16	0.036	2580
	15000	18×35	0.16	0.036	2580
	22000	18×35	0.16	0.036	2580
	33000	18×35	0.16	0.036	2580
	47000	18×35	0.16	0.036	2580
	68000	18×35	0.16	0.036	2580
	100000	18×35	0.16	0.036	2580
	150000	18×35	0.16	0.036	2580
	220000	18×35	0.16	0.036	2580
	330000	18×35	0.16	0.036	2580