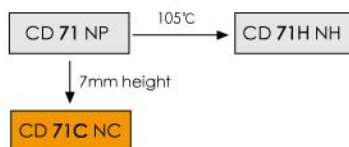


CD 71C NC Series



1000h at 85°C

- Load life of 1000 hours at 85°C
- Bi-polar
- 7mm height, standard products



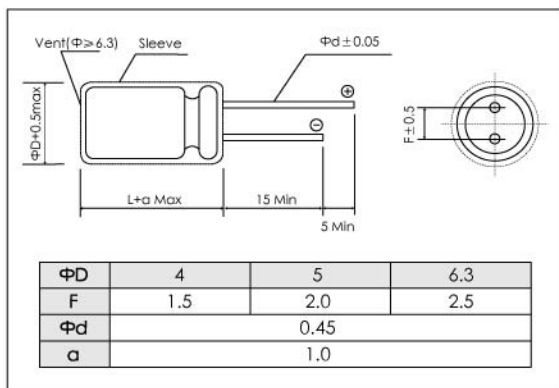
Items	Characteristics						
Operating Temperature Range (°C)	-40 ~ +85						
Capacitance Tolerance (20°C, 120Hz)	± 20%						
Leakage Current (μA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.03CV+3 C: Nominal Capacitance (μF) V: Rated Voltage (V)						
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50
	Tan δ (max)	0.30	0.25	0.20	0.15		

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	1500h	25000h	1000h	1000h	500h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ± 30% of initial value		Within ± 20% of initial value	Within ± 20% of initial value	Within ± 20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 200% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature Failure Rate Level	U_R I_R 85°C ≤ 1% Failure Rate	U_R $1.2 \times I_R$ 40°C ≤ 1% Failure Rate	U_R I_R 85°C guaranteed	U_R $I_R = 0$ 85°C	$U_R = 0$ $I_R = 0$ 85°C After test: U_R to be applied for 30min >24h before measurement

Note: The life test excluding shelf life should be conducted with the polarity inverted every 250hrs.

Dimensions

mm



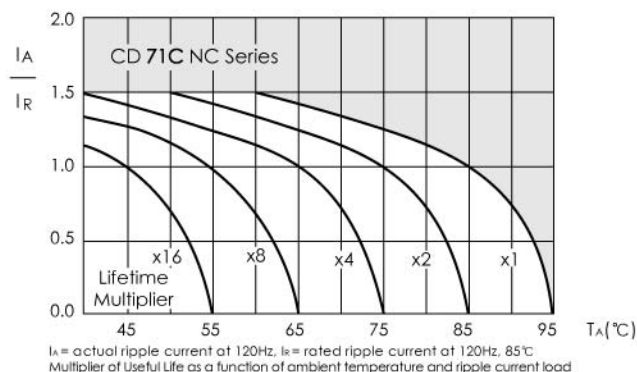
Temperature Coefficient

Temperature(°C)	+70	+85
Coefficient	1.35	1

Frequency Coefficient

Frequency	50-60Hz	120Hz	500Hz	1kHz	10~100kHz
Coefficient	0.80	1.00	1.20	1.30	1.50

Lifetime Diagram





CD 71C NC Series

Ratings for CD 71C NC Series

U _R (Surge Voltage) Code	Rated Capa- citan- ce	Max ESR 20°C, 120Hz	Rated Ripple Current 85°C, 120Hz	Size Φ D x L	P/N
(V)	(μF)	(Ω)	(mA _{rms})	(mm)	-
6.3 (7.2) 0J	22	18	32	5×7	ECR0JNC220M□□050007
	33	12	40	5×7	ECR0JNC330M□□050007
	47	8	56	6.3×7	ECR0JNC470M□□063007
10 (13) 1A	10	33	23	4×7	ECR1ANC100M□□040007
	22	15	35	5×7	ECR1ANC220M□□050007
	33	10	45	6.3×7	ECR1ANC330M□□063007
	47	7	65	6.3×7	ECR1ANC470M□□063007
16 (20) 1C	4.7	56	18	4×7	ECR1CNC4R7M□□040007
	10	27	25	5×7	ECR1CNC100M□□050007
	22	12	45	6.3×7	ECR1CNC220M□□063007
	33	8	60	6.3×7	ECR1CNC330M□□063007
25 (32) 1E	3.3	60	15	4×7	ECR1ENC3R3M□□040007
	4.7	42	18	5×7	ECR1ENC4R7M□□050007
	10	20	35	6.3×7	ECR1ENC100M□□063007
	22	9	50	6.3×7	ECR1ENC220M□□063007
35 (44) 1V	2.2	90	13	4×7	ECR1VNC2R2M□□040007
	3.3	60	19	5×7	ECR1VNC3R3M□□050007
	4.7	42	22	5×7	ECR1VNC4R7M□□050007
	10	20	37	6.3×7	ECR1VNC100M□□063007
50 (63) 1H	0.1	1990	1	4×7	ECR1HNC0R1M□□040007
	0.22	905	2	4×7	ECR1HNCR22M□□040007
	0.33	603	3	4×7	ECR1HNCR33M□□040007
	0.47	424	5	4×7	ECR1HNCR47M□□040007
	1	199	10	4×7	ECR1HNC010M□□040007
	2.2	90	19	5×7	ECR1HNC2R2M□□050007
	3.3	60	26	5×7	ECR1HNC3R3M□□050007
	4.7	42	32	6.3×7	ECR1HNC4R7M□□063007

Customer products are available on request.

MINIATURE

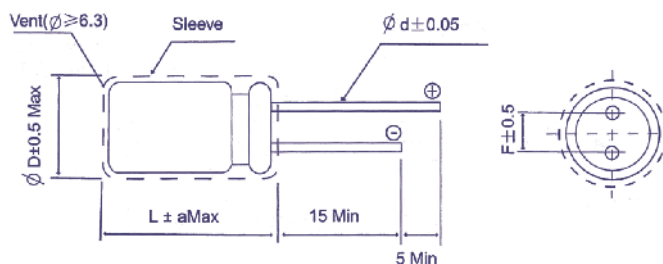
Order Code **SMD, Radial, Snap-In**

EC	R	1C	PT	101	M	FF	25	0611	JExxxxx
Technology	Terminal Type	Rated Voltage Code	Series Code	Capacitance Code (in μF)	Capacitance Tolerance	Lead Form	Terminal/ Pitch Size	Size $\varnothing D \times L$	for Specials only
EC = Electrolytic Capacitor	SMD = V	2,5V = 0E	CD 110 = PT	0,47 = R47	$\pm 20\%$ = M	SMD:		4x7 = 0407	
	Radial = R	4V = 0G	CD 11GL = GL	1,0 = 010	$\pm 10\%$ = K	Taped = FF	Terminal = T2	5x11,5 = 0511	
PC = Polymer Capacitor	Snap-In = S	6,3V = 0J	CD 261 = LK	2,2 = 2R2	+20 / -0% = R	Radial:		6,3x11,5 = 0611	
		10V = 1A	CD 261X = QX	10 = 100	+20 / -10% = V	Taped = FF	2,0mm = 20	35x80 = 3580	
		16V = 1C	CD 262 = QM	100 = 101	+30 / -10% = Q	Long Lead = LL	2,5mm = 25	45x100 = 45100	
		20V = 1D	CD 263 = BK	1000 = 102	+50 / -10% = T	Cut 5,0mm = CB	3,5mm = 35		
		25V = 1E	CD 269 = PH	10000 = 103		Cut 4,5mm = CC	5,0mm = 50		
		35V = 1V	CD 269L = HL			Cut 4,0mm = CD	7,5mm = 75		
		40V = 1G	CD 281 = LL			Cut 3,5mm = CE	10,0mm = 10		
		50V = 1H	CD 281L = LH			Cut 3,0mm = CF	12,5mm = 12		
		63V = 1J	CD 287 = GC			on request: alternative lead forms (Keyed Polarity, axial, 90° - angle, others)			
		80V = 1K	CD 28L = QL			Snap-In:			
		100V = 2A	CD 293 = BZ			4,0mm Pin Length = T4	2 Pin = P2		
		160V = 2C	CD 294 = BW			6,3mm Pin Length = T6	3 Pin = P3		
		180V = 2K	CD 295 = BC			Soldering Pin = S4	4 Pin = P4		
		200V = 2D	CD 296 = KC			on request:	5 Pin = P5		
		250V = 2E	CD 297 = BB			alternative pin types			
		315V = 2F	CD 299 = PG						
		350V = 2V	CD 29D = HR						
		385V = 2J	CD 29H = QH						
		400V = 2G	CD 29L = QL						
		415V = 2P	CD 891 = ZJ						
		420V = 2X	CD 892 = ZL						
		450V = 2W	CD 895 = ZK						
		500V = 2H							
		550V = 2Y	Polymer on request						

Technical Specification **Radial Type**

Dimensions for loose, long-lead type (bulk)

Order Code: LL



L	L ≤ 7					L ≥ 11							
ø D	3	4	5	6,3	8	5	6,3	8	10	12,5	16	18	20
F	1	1,5	2,0	2,5	3,5	2,0	2,5	3,5	5,0	7,5	10,0	12,5	12,5
ø d	0,4		0,45			0,5		0,6		0,8		1,0	
a _{Max}			1,0					2,0					

For diameter 20 pitch 7,5 on request.

in mm

Dimensions for loose, short cut leads (bulk)

Order Code: CC (CB, CD, CE, CF)

Straight Lead			Bended Lead		
Code	CB	CC	CD	CE	CF
I	5,0 ± 0,5	4,5 ± 0,5	4,0 ± 0,5	3,5 ± 0,5	3,0 ± 0,5

preferred

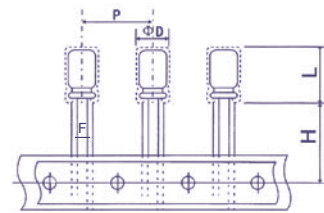
in mm

Dimensions for Ammopack taping

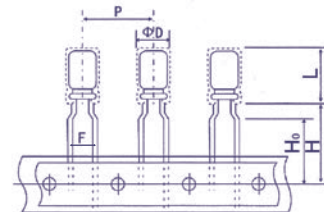
Order Code: FF (FD)

Code	Case Range		Dimensions				Form
	Ø D	L (max)	H ± 0,75	Ho ± 0,5	F ^{+0,8} _{-0,2}	P ± 0,1	
FF	4 ~ 5	13	18,5	-	2,5	12,7	B
	6,3	13	18,5	-	2,5	12,7	A
	8	13	18,5	-	3,5	12,7	
	4 ~ 8	7	17,5	16	5,0	12,7	B
	5 ~ 6,3	13	18,5				
	8	22	20,0				A
	10	22	18,5	-		15,0	
FD	12,5	27	18,5	-		25,4	C
	16	27	18,5	-	7,5	30,0	

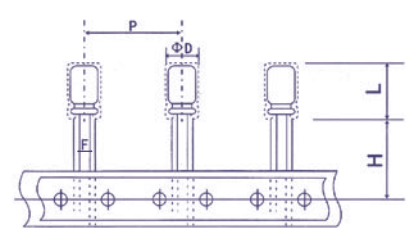
Form A



Form B



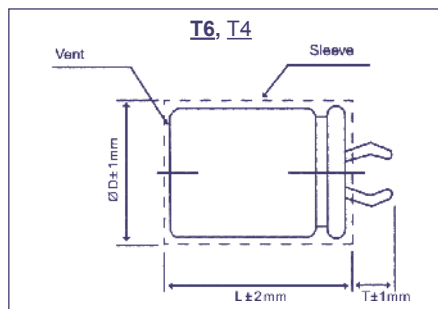
Form C



in mm

Technical Specification Snap-In Type

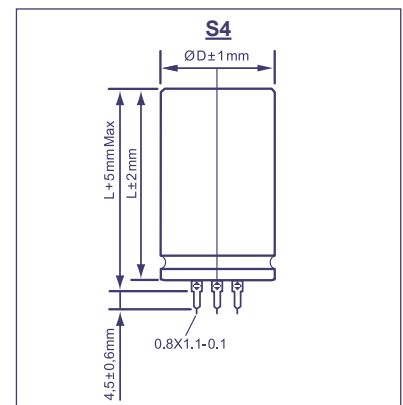
Pin Type: Snap-In Order Code: T6, T4



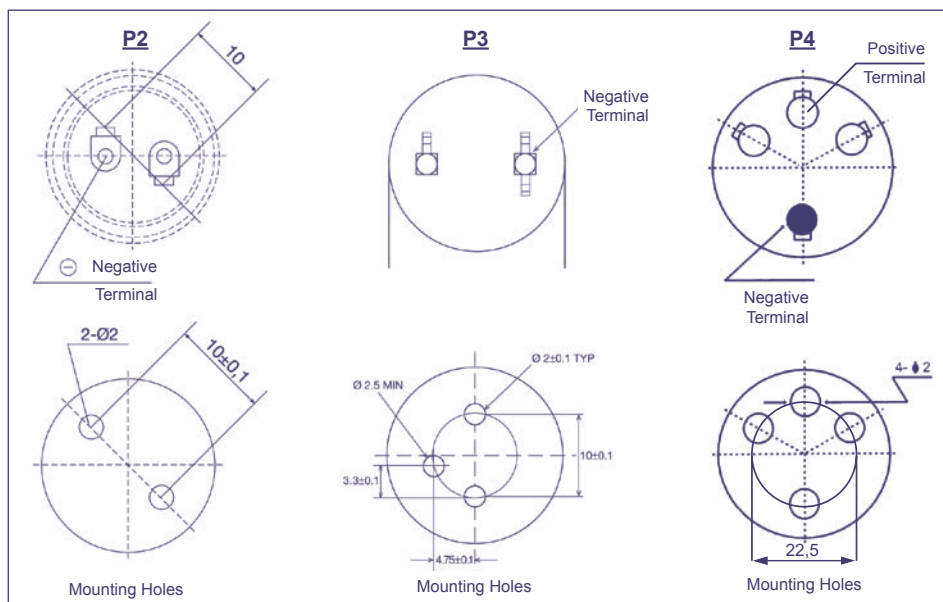
Terminal	T6	T4
Pin Length	6,3	4,0

preferred

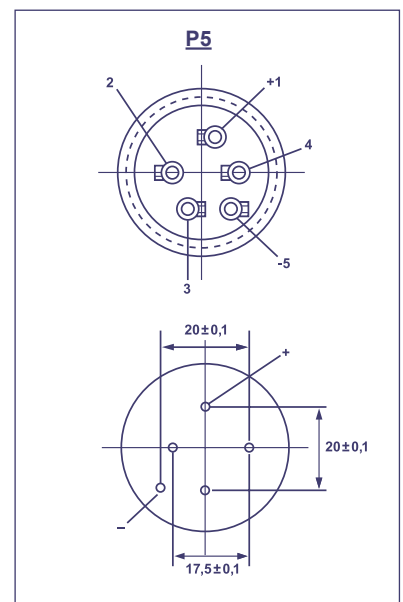
Pin Type: Soldering Order Code: S4



Snap-In Terminal Order Code: P2, P3, P4 and Mounting Holes (Top view)



Soldering Terminal Order Code: P5



P3 only as T4 Terminal available, P4 for Ø D ≥ 30mm, P5 for Ø D ≥ 40mm