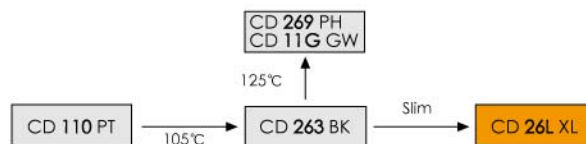
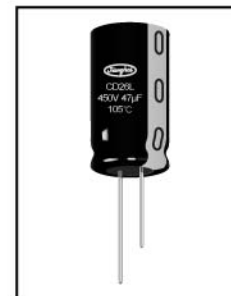


CD 26L XL Series



2000h at 105°C

- Slim Type
- High ripple current

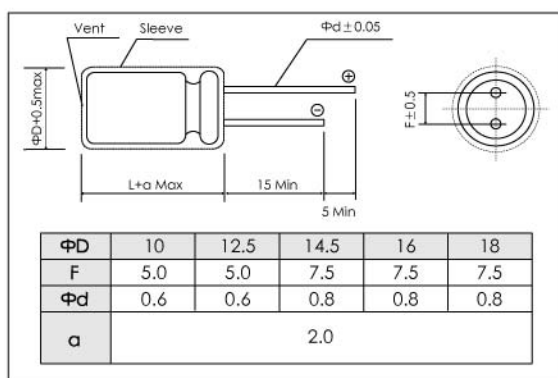


Items	Characteristics					
Operating Temperature Range (°C)	-25 ~ +105					
Voltage Range (V)	200 ~ 450					
Capacitance Range (μF)	18 ~ 560					
Capacitance Tolerance (20°C, 120Hz)	± 20%					
Leakage Current (μA)	After 1 minute at 20°C application of rated voltage, leakage current is not more than 0.02CV. C: Nominal Capacitance (μF) V: Rated Voltage (V)					
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	200	250	350	400	450
	Tan δ (max)	0.12	0.15	0.15	0.20	0.20
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	200 ~ 250		400 ~ 450		
	Z _{-25°C} / Z _{+20°C}	3		8		

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4000h	≥ 100000h	2000h	2000h	1000h
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 105°C ≤ 1% Failure Rate	U _R 1.2 x I _R 40°C ≤ 1% Failure Rate	U _R I _R 105°C guaranteed	U _R I _R = 0 105°C	U _R = 0 I _R = 0 105°C After test: U _R to be applied for 30min >24h before measurement

Dimensions

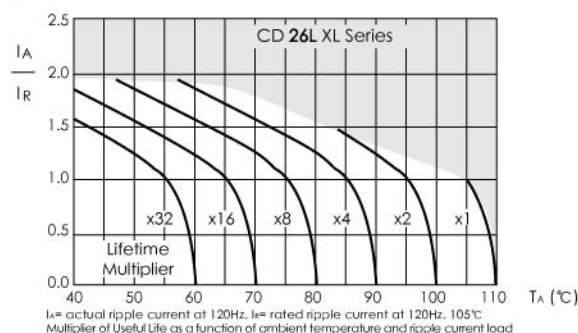
mm



Frequency Coefficient

Frequency(Hz)	50/60	120	500	1K	≥ 10K
Coefficient					
200 ~ 250V	0.8	1.0	1.20	1.30	1.40
400 ~ 450V	0.8	1.0	1.25	1.40	1.50

Lifetime Diagram



Temperature Coefficient

Temperature(°C)	+70	+85	+105
Coefficient	1.8	1.4	1.0



CD 26L XL Series

Ratings for CD 26L XL Series

Ur (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size Φ D x L	P/N
(V)	(μF)	(Ω)	(Ω)	(mAmps)	(mm)	-
200 (250) 2D	82	1.942	1.165	400	10×30	ECR2DXL820M□□100030
	100	1.592	0.955	460	10×36	ECR2DXL101M□□100036
	120	1.327	0.796	530	10×40	ECR2DXL121M□□100040
	150	1.062	0.637	620	12.5×30	ECR2DXL151M□□125030
	180	0.885	0.531	700	12.5×36	ECR2DXL181M□□125036
	220	0.724	0.434	800	12.5×42	ECR2DXL221M□□125042
		0.724	0.434	800	14.5×31	ECR2DXL221M□□145031
	270	0.590	0.354	870	14.5×40	ECR2DXL271M□□145040
		0.590	0.354	870	16×35.5	ECR2DXL271M□□160035
	330	0.483	0.290	1010	16×40	ECR2DXL331M□□160040
		0.483	0.290	1010	18×31.5	ECR2DXL331M□□180031
	390	0.408	0.245	1130	18×36	ECR2DXL391M□□180036
	470	0.339	0.203	1270	18×40	ECR2DXL471M□□180040
	560	0.284	0.170	1390	18×45	ECR2DXL561M□□180045
250 (300) 2E	68	2.927	1.756	330	10×33	ECR2EXL680M□□100033
	82	2.427	1.456	420	10×40	ECR2EXL820M□□100040
	100	1.990	1.194	480	10×51	ECR2EXL101M□□100051
	120	1.659	0.995	560	12.5×36	ECR2EXL121M□□125036
	150	1.327	0.796	650	12.5×42	ECR2EXL151M□□125042
	180	1.106	0.663	730	14.5×40	ECR2EXL181M□□145040
400 (450) 2G	220	0.905	0.543	840	16×40	ECR2EXL221M□□160040
	27	7.372	4.423	240	10×30	ECR2GXL270M□□100030
	33	6.032	3.619	280	10×36	ECR2GXL330M□□100036
	39	5.104	3.062	320	10×40	ECR2GXL390M□□100040
	47	4.235	2.541	370	12.5×30	ECR2GXL470M□□125030
		4.235	2.541	370	10×51	ECR2GXL470M□□100051
	56	3.554	2.132	420	12.5×36	ECR2GXL560M□□125036
	68	2.927	1.756	480	12.5×40	ECR2GXL680M□□125040
		2.927	1.756	480	14.5×31	ECR2GXL680M□□145031
	82	2.427	1.456	520	14.5×35.5	ECR2GXL820M□□145035
		2.427	1.456	520	12.5×51	ECR2GXL820M□□125051
	100	1.990	1.194	580	14.5×40	ECR2GXL101M□□145040
		1.990	1.194	580	16×35.5	ECR2GXL101M□□160035
		1.990	1.194	580	12.5×51	ECR2GXL101M□□125051
	120	1.659	0.995	670	16×40	ECR2GXL121M□□160040
		1.659	0.995	670	18×36	ECR2GXL121M□□180036
	150	1.327	0.796	770	18×40	ECR2GXL151M□□180040
420 (470) 2X	180	1.106	0.664	880	18×45	ECR2GXL181M□□180045
	22	12.063	7.238	200	10×30	ECR2XXL220M□□100030
	27	9.829	5.897	230	10×36	ECR2XXL270M□□100036
	33	8.042	4.825	270	10×40	ECR2XXL330M□□100040
	39	6.805	4.083	310	12.5×30	ECR2XXL390M□□125030
	47	5.647	3.388	360	12.5×36	ECR2XXL470M□□125036
		5.647	3.388	360	10×51	ECR2XXL470M□□100051
	56	4.739	2.843	430	12.5×40	ECR2XXL560M□□125040
		4.739	2.843	430	14.5×31	ECR2XXL560M□□145031
	68	3.903	2.342	490	14.5×35.5	ECR2XXL680M□□145035
		3.903	2.342	490	16×31.5	ECR2XXL680M□□160031
		3.903	2.342	490	12.5×42	ECR2XXL680M□□125042
	82	3.236	1.942	550	14.5×40	ECR2XXL820M□□145040
		3.236	1.942	550	16×35.5	ECR2XXL820M□□160035
		3.236	1.942	550	12.5×51	ECR2XXL820M□□125051
	100	2.654	1.592	610	16×40	ECR2XXL101M□□160040
		2.654	1.592	610	18×31.5	ECR2XXL101M□□180031
	120	2.212	1.327	660	18×36	ECR2XXL121M□□180036
	150	1.769	1.061	710	18×45	ECR2XXL151M□□180045

Ur (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size Φ D x L	P/N
(V)	(μF)	(Ω)	(Ω)	(mAmps)	(mm)	-
450 (500) 2W	18	14.744	8.846	180	10×30	ECR2WXL180M□□100030
	22	12.063	7.238	210	10×36	ECR2WXL220M□□100036
	27	9.829	5.897	250	10×40	ECR2WXL270M□□100040
	33	8.042	4.825	280	12.5×30	ECR2WXL330M□□125030
	39	6.805	4.083	320	12.5×36	ECR2WXL390M□□125036
		6.805	4.083	320	10×51	ECR2WXL390M□□100051
	47	5.647	3.388	380	12.5×40	ECR2WXL470M□□125040
		5.647	3.388	380	14.5×31	ECR2WXL470M□□145031
		5.647	3.388	380	10×51	ECR2WXL470M□□100051
	56	5.007	3.004	410	10×51	ECR2WXL530M□□100051
		4.739	2.843	440	14.5×35.5	ECR2WXL560M□□145035
	68	4.739	2.843	440	16×31.5	ECR2WXL560M□□160031
		3.903	2.342	510	14.5×40	ECR2WXL680M□□145040
		3.903	2.342	510	16×35.5	ECR2WXL680M□□160035
	82	3.903	2.342	510	12.5×51	ECR2WXL680M□□125051
		3.236	1.942	570	16×40	ECR2WXL820M□□160040
		3.236	1.942	570	18×31.5	ECR2WXL820M□□180030
		3.236	1.942	570	12.5×51	ECR2WXL820M□□125051

Customer products are available on request.

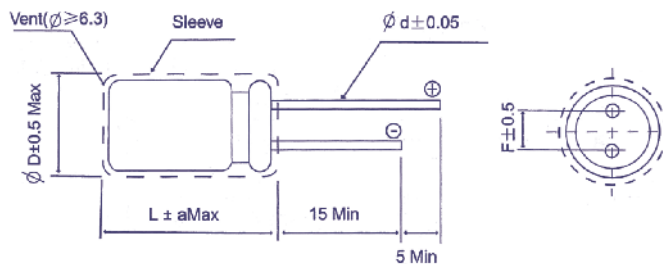
Order Code **SMD, Radial, Snap-In**

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							
$\varnothing D$	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
$\varnothing d$	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

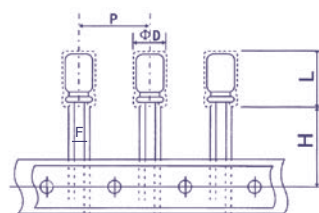
in mm

Dimensions for Ammopack taping

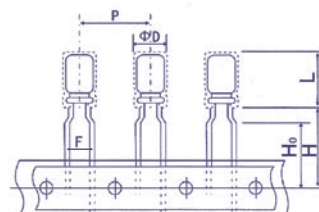
Order Code: FF (FD)

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
FF	16	27	18,5	-	7,5	30,0	

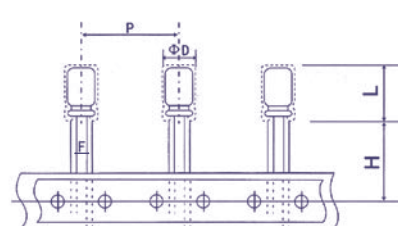
Form A



Form B



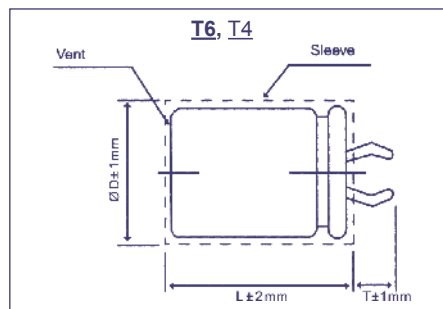
Form C



in mm

Technical Specification Snap-In Type

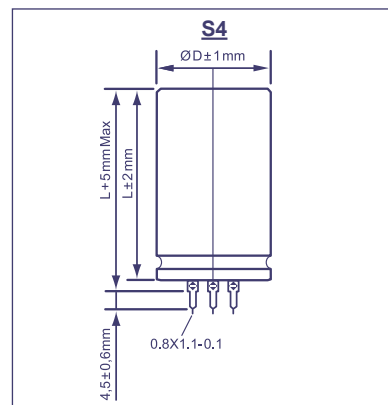
Pin Type: Snap-In Order Code: T6, T4



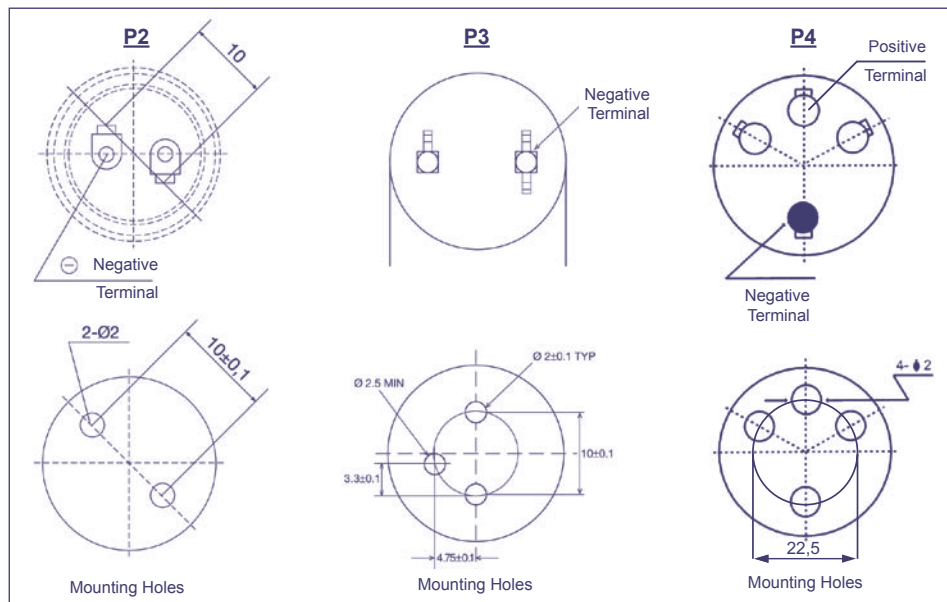
Terminal	T6	T4
Pin Length	6,3	4,0

preferred

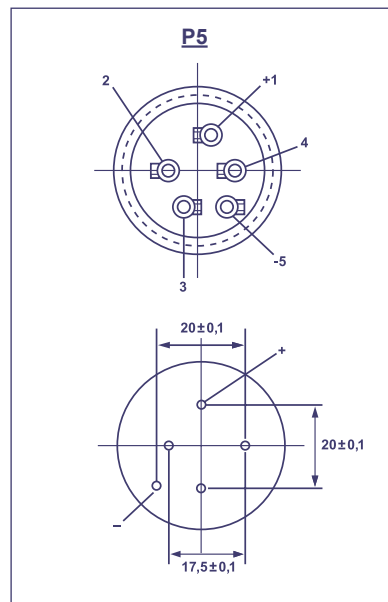
Pin Type: Soldering Order Code: S4



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