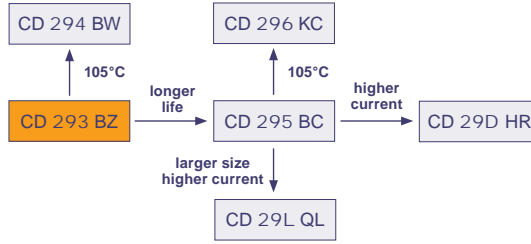


4 000h at 85°C

· Standard 85°C



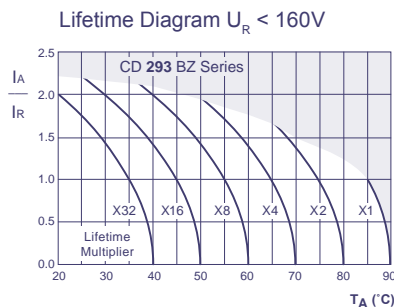
Item	Characteristics								
Operating Temperature Range (°C)	-40 ~ +85	-25 ~ +85							
Voltage Range (V)	10 ~ 400	450 ~ 500							
Capacitance Range (µF)	68 ~ 82 000								
Capacitance Tolerance (20°C, 120Hz)	± 20%								
Leakage Current (µA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0,01CV or 1,5mA, whichever is smaller C: Nominal Capacitance (µF) V: Rated Voltage (V)								
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V) \ Cap (µF)								
	10~16	25	35~50	63	80~100	Rated Voltage (V) \ Ø (mm)			
	160~200	250~500	Cap (µF) \ Ø (mm)						
	≤ 2700	-	-	0,20	0,15	0,15	22 ~33	0,10	0,15
	3 300 ~ 4700	-	0,35	0,25	0,20	0,15	35	0,12	0,15
5 600 ~ 6800	0,40	0,35	0,30	0,20	0,20				
≥ 8200	0,40	0,35	0,35	0,25	-				
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)		10	10~35	50~100	160~200	250~400	450~500	
	$Z_{-25°C} / Z_{+20°C}$		5	4	3		4		
	$Z_{-40°C} / Z_{+20°C}$		18	15	10	6	8	-	

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4 000h	>75000h	2000h	3000h	1 000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacity Change	Within ± 30% of initial value		Within ± 15% of initial value	Within ± 20% of initial value	Within ± 15% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 150% of specified value	Not more than 130% of specified value	Not more than 150% of specified value
Condition:					
Applied Voltage	$U_R$	$U_R$	$U_R$	$U_R$	$U_R = 0$
Applied Current	$I_R$	$1,2 \times I_R$	$I_R$	$I_R = 0$	$I_R = 0$
Applied Temperature	85°C	40°C	85°C	85°C	85°C
Failure Rate Level	≤ 1% Failure Rate	≤ 1% Failure Rate	guaranteed		After test: $U_R$ to be applied for 30min >24h before measurement

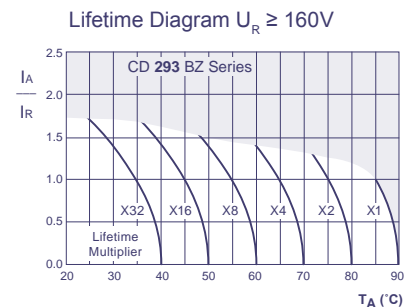
## Multiplier for Ripple Current

Frequency Coefficient

Rated Voltage (V)	Frequency				
	50Hz	120Hz	1kHz	10kHz	100kHz
≤ 50	0,95	1,00	1,10	1,15	1,15
63 ~ 100	0,95	1,00	1,16	1,30	1,33
≥ 160	0,95	1,00	1,20	1,50	1,55



$I_A$  = actual ripple current at 120Hz,  
 $I_R$  = rated ripple current at 120Hz, 85°C  
 Multiplier of Useful Life as a function of ambient temperature and ripple current load



$I_A$  = actual ripple current at 120Hz,  
 $I_R$  = rated ripple current at 120Hz, 85°C  
 Multiplier of Useful Life as a function of ambient temperature and ripple current load

## Ratings for CD 293 BZ Series

V <sub>DC</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Max Ripple Current 85°C, 120Hz	Size Ø D x L
(V)	(µF)	(mΩ)	(mΩ)	(Arms)	(mm)
<b>10 (13) 1A</b>	10000	54	43	2.5	22 x 25
	12000	45	36	2.9	22 x 25
	15000	36	29	3.2	22 x 30
		36	29	3.1	25 x 25
	18000	30	24	3.6	22 x 35
		30	24	3.6	25 x 30
	22000	25	20	4.0	22 x 40
		25	20	4.1	25 x 35
	33000	25	20	4.1	30 x 25
		17	13	4.6	25 x 40
	39000	17	13	4.8	30 x 30
		17	13	4.8	35 x 25
	47000	14	10.9	5.2	25 x 45
		14	10.9	5.3	30 x 35
	56000	12	9.1	5.8	25 x 50
		12	9.1	6.0	30 x 40
	68000	12	9.1	6.0	35 x 30
		9.5	7.6	6.7	30 x 45
	<b>16 (20) 1C</b>	9.5	7.6	6.8	35 x 35
		7.9	6.3	7.5	30 x 50
82000		7.9	6.3	7.7	35 x 40
8200		6.5	5.2	8.7	35 x 45
10000		65	52	2.2	22 x 25
		54	43	2.6	22 x 30
12000		54	43	2.6	25 x 25
		45	36	2.9	22 x 35
15000		36	29	3.3	22 x 40
		36	29	3.3	25 x 30
18000		36	29	3.4	30 x 25
		30	24	3.8	22 x 45
22000		30	24	3.7	25 x 35
		25	20	4.2	22 x 50
27000		25	20	4.2	25 x 40
		25	20	4.2	30 x 30
33000		25	20	4.4	35 x 25
		20	16	5.0	25 x 45
39000		20	16	5.0	30 x 35
		17	13	5.6	30 x 40
47000	17	13	5.6	35 x 30	
	14	11	6.2	30 x 45	
<b>25 (32) 1E</b>	39000	14	11	6.3	35 x 35
	12	9.1	7.0	30 x 50	
	56000	12	9.1	7.2	35 x 40
	5600	9.5	7.6	8.0	35 x 45
	6800	83	67	2.0	22 x 25
		69	55	2.3	22 x 30
	8200	69	55	2.3	25 x 25
		57	46	2.6	22 x 35
	10000	47	38	2.9	22 x 40
		47	38	2.8	25 x 30
	12000	47	38	3.0	30 x 25
		39	31	3.3	22 x 45
	15000	39	31	3.2	25 x 35
		39	31	3.4	30 x 30
	18000	31	25	3.7	25 x 40
		31	25	3.9	35 x 25
	22000	26	21	4.3	25 x 50
		26	21	4.2	30 x 35
	33000	26	21	4.4	35 x 30
		22	17	4.8	30 x 40
<b>35 (44) 1V</b>	39000	22	17	5.0	35 x 35
	33000	15	12	6.5	35 x 40
	39000	12	10	7.5	35 x 45
	3300	100	81	1.8	22 x 25
	4700	86	69	2.1	22 x 30
		71	57	2.2	25 x 25
	5600	72	57	2.3	22 x 35
		72	57	2.3	25 x 30
	6800	59	47	2.9	22 x 40
		59	47	2.6	25 x 35
	8200	59	47	2.7	30 x 25
		57	46	2.8	22 x 50
	10000	57	46	2.8	25 x 40
		57	46	2.8	30 x 30
	12000	57	46	2.9	35 x 25
		47	38	3.1	25 x 45
	15000	47	38	3.2	30 x 35
		39	31	3.5	25 x 50
	18000	39	31	3.5	30 x 40
		39	31	3.6	35 x 30
22000	31	25	4.1	30 x 45	
	31	25	4.1	35 x 35	
27000	26	21	4.6	30 x 50	
	26	21	4.7	35 x 40	
<b>50 (63) 1H</b>	22000	22	17	5.3	35 x 45
	27000	18	14	7.0	35 x 50
	2200	120	97	1.7	22 x 25
		100	79	1.9	22 x 30
	2700	100	79	1.9	25 x 25
		100	81	2.0	22 x 35
	3300	86	69	2.1	22 x 35
		86	69	2.1	25 x 30
	3900	86	69	2.1	25 x 30
		86	69	2.4	30 x 25

V <sub>DC</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Max Ripple Current 85°C, 120Hz	Size Ø D x L	
(V)	(µF)	(mΩ)	(mΩ)	(Arms)	(mm)	
<b>50 (63) 1H</b>	4700	71	57	2.4	22 x 40	
		71	57	2.4	25 x 35	
		71	57	2.4	30 x 30	
		72	57	2.5	22 x 50	
	5600	72	57	2.5	25 x 40	
		72	57	2.5	30 x 30	
		72	57	2.6	35 x 25	
		59	47	2.8	25 x 45	
	6800	59	47	2.8	30 x 35	
		57	46	3.2	25 x 50	
		57	46	3.0	30 x 40	
		57	46	3.0	35 x 30	
	8200	47	38	3.4	30 x 45	
		47	38	3.4	35 x 35	
		39	31	3.8	30 x 50	
		39	31	3.8	35 x 40	
	10000	39	31	3.8	35 x 40	
		31	25	4.5	35 x 50	
		15000	135	107	1.6	22 x 25
		1800	110	89	1.8	22 x 30
<b>63 (79) 1J</b>	2200	91	73	2.0	22 x 30	
		91	73	2.0	25 x 25	
	2700	74	59	2.2	22 x 35	
		74	59	2.3	25 x 30	
	3300	81	65	2.3	22 x 40	
		81	65	2.3	25 x 35	
	3900	81	65	2.3	30 x 25	
		69	55	2.5	22 x 45	
	4700	69	55	2.6	25 x 40	
		69	55	2.6	30 x 30	
	5600	69	55	2.7	35 x 25	
		57	46	2.8	30 x 30	
	6800	48	38	3.1	25 x 45	
		48	38	3.2	30 x 35	
	8200	48	38	3.3	35 x 30	
		40	32	3.6	30 x 40	
	10000	40	32	3.7	35 x 35	
		41	33	3.7	30 x 50	
	12000	41	33	3.8	35 x 40	
		34	27	4.3	35 x 45	
15000	28	23	4.8	35 x 50		
	1000	200	160	1.3	22 x 25	
<b>80 (100) 1K</b>	12000	165	133	1.5	22 x 30	
		1500	133	107	1.7	25 x 25
	1800	111	89	1.9	22 x 35	
		111	89	1.9	25 x 30	
	2200	91	73	2.1	22 x 40	
		91	73	2.2	25 x 35	
	2700	91	73	2.2	30 x 25	
		74	59	2.5	22 x 50	
	3300	74	59	2.5	25 x 40	
		74	59	2.5	30 x 30	
	3900	74	59	2.5	35 x 25	
		61	49	2.8	25 x 45	
	4700	61	49	2.8	30 x 35	
		61	49	3.1	25 x 50	
	5600	52	41	3.1	30 x 40	
		52	41	3.2	30 x 40	
	6800	52	41	3.2	35 x 30	
		43	34	3.6	30 x 45	
	8200	43	34	3.6	35 x 35	
		48	38	3.5	30 x 50	
10000	48	38	3.5	35 x 40		
	40	32	4.1	35 x 50		
<b>100 (125) 2A</b>	1800	680	293	235	1.1	22 x 25
		820	243	195	1.2	22 x 30
	2200	1000	200	160	1.4	25 x 25
		166	133	1.6	22 x 35	
	2700	166	133	1.6	25 x 30	
		133	107	1.8	22 x 40	
	3300	133	107	1.7	25 x 35	
		133	107	1.8	30 x 25	
	3900	111	89	2.1	22 x 50	
		111	89	2.0	25 x 40	
	4700	111	89	2.1	30 x 30	
		111	89	2.2	35 x 25	
	5600	91	73	2.2	25 x 45	
		91	73	2.3	30 x 35	
	6800	91	73	2.5	35 x 30	
		74	59	2.6	25 x 50	
	8200	74	59	2.7	30 x 40	
		61	49	3.0	30 x 45	
	9700	61	49	3.1	35 x 35	
		52	41	3.4	30 x 50	
<b>160 (200) 2C</b>	2200	52	41	3.4	35 x 40	
		4700	43	34	4.0	35 x 50
	2700	220	600	483	1.1	22 x 25
		270	490	393	1.2	22 x 25
	3300	330	400	322	1.3	22 x 25
		390	341	273	1.5	22 x 30
	3900	341	273	1.5	25 x 25	
		470	283	226	1.6	25 x 30
	4700	237	190	1.9	22 x 35	
		237	190	1.9	25 x 30	
	5600	237	190	2.0	30 x 25	

Snap-In

## Ratings for CD 293 BZ Series

V <sub>DC</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Max Ripple Current 85°C, 120Hz	Size Ø D x L	
(V)	(µF)	(mΩ)	(mΩ)	(Arms)	(mm)	
<b>160 (200) 2C</b>	680	196	157	2.1	22 x 40	
		196	157	2.2	25 x 35	
	820	162	130	2.5	22 x 50	
		162	130	2.4	25 x 40	
		162	130	2.5	30 x 30	
		195	156	2.4	35 x 25	
	1000	133	107	2.7	25 x 45	
		133	107	2.8	30 x 35	
		160	128	2.7	35 x 30	
	1200	111	89	3.1	25 x 50	
		111	89	3.2	30 x 40	
		133	107	3.0	35 x 35	
		89	71	3.7	30 x 45	
	1500	107	85	3.5	35 x 40	
		89	71	3.9	35 x 45	
	2200	73	58	4.5	35 x 50	
<b>180 (225) 2K</b>	270	495	393	1.2	22 x 25	
	330	400	322	1.4	22 x 30	
	390	340	273	1.5	25 x 25	
	470	283	226	1.7	22 x 35	
		283	226	1.7	25 x 30	
	560	283	226	1.8	30 x 25	
		237	190	1.9	22 x 40	
	680	237	190	2.0	25 x 35	
		196	157	2.3	22 x 50	
		196	157	2.2	25 x 40	
	820	196	157	2.3	30 x 30	
		235	188	2.2	35 x 25	
		162	130	2.5	25 x 45	
		162	130	2.6	30 x 35	
	1000	195	156	2.5	35 x 30	
		133	107	2.9	25 x 50	
		133	107	2.9	30 x 40	
	1200	111	89	3.3	30 x 45	
		133	107	3.1	35 x 35	
		107	85	3.6	35 x 45	
		1800	89	71	4.1	35 x 50
	<b>200 (250) 2D</b>	220	600	483	1.1	22 x 25
		270	492	393	1.2	22 x 30
		330	402	322	1.4	22 x 30
390		402	322	1.4	25 x 25	
		341	273	1.6	22 x 35	
470		341	273	1.6	25 x 30	
		283	226	1.8	22 x 40	
560		283	226	1.9	30 x 25	
		237	190	2.0	22 x 45	
		237	190	2.0	25 x 35	
		237	190	2.1	30 x 30	
680		285	228	2.0	35 x 25	
		196	157	2.3	25 x 40	
		196	157	2.4	30 x 35	
820		162	130	2.6	25 x 50	
		162	130	2.7	30 x 40	
		195	156	2.5	35 x 30	
1000		133	107	3.1	30 x 45	
		160	128	2.8	35 x 35	
		111	89	3.4	30 x 50	
		133	107	3.2	35 x 40	
1500		107	85	3.8	35 x 50	
<b>250 (300) 2E</b>		100	1990	1592	0.68	22 x 25
		180	1106	885	0.94	22 x 25
	220	905	724	1.1	22 x 30	
		905	724	1.1	25 x 25	
	270	737	590	1.2	22 x 35	
		603	483	1.4	22 x 40	
	330	603	483	1.4	25 x 30	
		603	483	1.5	30 x 25	
		511	409	1.6	22 x 45	
	390	511	409	1.6	25 x 35	
		424	339	1.8	22 x 50	
	470	424	339	1.8	25 x 40	
		424	339	1.8	30 x 30	
		424	339	2.4	35 x 25	
	560	356	285	2.0	25 x 45	
		356	285	2.0	30 x 35	
	680	293	235	2.3	30 x 40	
		293	235	2.6	35 x 30	
	820	243	195	2.6	30 x 45	
		243	195	2.6	35 x 35	
	1000	199	160	3.0	35 x 40	
	1200	166	133	3.4	35 x 45	
	<b>315 (365) 2F</b>	100	1990	1592	0.67	22 x 25
		150	1327	1062	0.85	22 x 30
1327			1062	0.85	25 x 25	
180		1106	885	0.96	22 x 35	
		1106	885	0.96	25 x 30	
220		905	724	1.1	22 x 40	
		905	724	1.1	25 x 35	
		905	724	1.1	30 x 25	
270		737	590	1.2	22 x 45	
		737	590	1.3	25 x 40	
		737	590	1.3	30 x 30	
		737	590	1.3	35 x 25	

V <sub>DC</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Max Ripple Current 85°C, 120Hz	Size Ø D x L	
(V)	(µF)	(mΩ)	(mΩ)	(Arms)	(mm)	
<b>315 (365) 2F</b>	330	603	483	1.4	25 x 45	
		603	483	1.4	30 x 35	
	390	511	409	1.6	25 x 50	
		511	409	1.6	30 x 40	
		511	409	1.6	35 x 30	
		424	339	1.8	30 x 45	
	470	424	339	1.8	35 x 35	
		356	285	2.0	30 x 50	
	560	356	285	2.0	35 x 40	
		680	293	235	2.3	35 x 45
	<b>350 (400) 2V</b>	82	2427	1941	0.64	22 x 25
		100	1990	1592	0.80	22 x 25
		120	1658	1327	0.82	22 x 30
			1658	1327	0.81	25 x 25
		150	1327	1062	0.94	22 x 35
			1327	1062	0.94	25 x 30
180		1106	885	1.1	22 x 40	
		1106	885	1.1	30 x 25	
		905	724	1.2	22 x 45	
		905	724	1.2	25 x 35	
220	905	724	1.2	30 x 30		
	905	724	1.3	35 x 25		
	737	590	1.4	25 x 45		
	737	590	1.4	30 x 35		
270	603	483	1.6	25 x 50		
	603	483	1.6	35 x 30		
330	511	409	1.7	30 x 40		
	511	409	1.8	35 x 35		
	424	339	2.0	30 x 45		
	424	339	2.0	35 x 40		
390	356	285	2.3	35 x 45		
	680	293	235	2.6	35 x 50	
	820	243	195	2.8	35 x 60	
	68	2926	2341	0.55	22 x 25	
<b>400 (450) 2G</b>	82	2427	1941	0.65	22 x 25	
	100	1990	1592	0.70	22 x 30	
	120	1990	1592	0.70	25 x 25	
		1658	1327	0.79	22 x 35	
	150	1327	1062	0.90	22 x 40	
		1327	1062	0.89	25 x 30	
		1327	1062	0.95	30 x 25	
		1106	885	1.0	22 x 45	
	180	1106	885	1.0	25 x 35	
		1106	885	1.1	30 x 30	
1106		885	1.2	35 x 25		
905		724	1.1	22 x 50		
220	905	724	1.2	25 x 40		
	905	724	1.2	30 x 35		
	737	590	1.3	25 x 45		
	737	590	1.4	30 x 40		
270	737	590	1.5	35 x 30		
	603	483	1.6	30 x 45		
	603	483	1.7	35 x 35		
	511	409	1.8	30 x 50		
330	511	409	1.8	35 x 40		
	424	339	2.1	35 x 45		
	560	356	285	2.3	35 x 50	
	68	2926	2341	0.57	22 x 30	
<b>450 (500) 2W</b>	82	2427	1941	0.68	22 x 35	
	100	1990	1592	0.72	22 x 35	
		1990	1592	0.73	25 x 30	
	120	1658	1327	0.80	22 x 40	
		1658	1327	0.83	25 x 35	
	150	1327	1062	0.95	22 x 50	
		1327	1062	0.95	25 x 40	
		1327	1062	0.98	30 x 30	
		1106	885	1.1	25 x 45	
	180	1106	885	1.1	30 x 35	
1106		885	1.2	35 x 25		
905		724	1.2	25 x 50		
905		724	1.2	25 x 40		
220	905	724	1.3	30 x 40		
	905	724	1.3	35 x 30		
	737	590	1.4	30 x 45		
	737	590	1.5	35 x 35		
270	737	590	1.5	35 x 50		
	603	483	1.7	30 x 50		
	390	511	409	1.9	35 x 45	
	470	424	339	2.2	35 x 50	
<b>500 (550) 2H</b>	100	1990	1592	0.90	30 x 25	
	120	1658	1327	1.0	30 x 30	
		1658	1327	1.0	35 x 25	
	150	1327	1062	1.2	30 x 35	
		1106	885	1.4	30 x 40	
	180	1106	885	1.3	35 x 30	
		905	724	1.6	30 x 45	
	220	905	724	1.5	35 x 35	
		905	724	1.5	35 x 35	
	270	737	590	1.8	30 x 50	
737		590	1.7	35 x 40		
330	603	483	2.0	35 x 45		
	511	409	2.3	35 x 50		

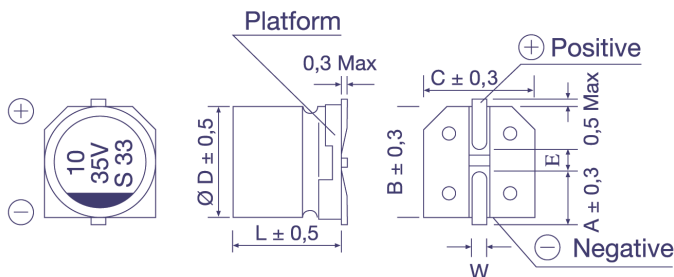
Custom products are available on request.

## Order Code SMD, Radial, Snap-In

EC	R	1C	PT	101	M	FF	25	0611	JE xxxxx
Technology	Terminal Type	Rated Voltage Code	Series Code	Capacitance Code (in $\mu\text{F}$ )	Capacitance Tolerance	Lead Form	Terminal/Pitch Size	Dimension	for Specials only
EC = Electrolytic Capacitor	SMD = V	For coding please refer to the pages of ratings	CD VS = BS	0,47 = R47	$\pm 20\%$ = M	SMD:		4x7 = 0407	
	Radial = R		CD VH = VH	1,0 = 010	$\pm 10\%$ = K	Taped = FF	Terminal = T2	5x11,5 = 0511	
PC = Polymer Capacitor	Snap-In = S		CD VZ = VZ	2,2 = 2R2	+30 / -10% = Q	Radial:		6,3x11,5 = 0611	
			CD 261 = LK	100 = 101	+50 / -10% = T	Long Lead = LL	2,0mm = 20	35x80 = 3580	
			CD 261X = QX	1000 = 102		Cut 5,0mm = CB	2,5mm = 25	45x100 = 45100	
			CD 262 = QM	10000 = 103		Cut 4,5mm = CC	3,5mm = 35		
			CD 263 = BK			Cut 4,0mm = CD	5,0mm = 50		
			CD 269 = PH			Cut 3,5mm = CE	7,5mm = 75		
			CD 281 = LL			Cut 3,0mm = CF	10,0mm = 10		
			CD 284 = XY			on request: alternative lead forms (axial, 90° - angle, others)		12,5mm = 12	
		CD 287 = GC			Snap-In:				
		CD 28L = QL			4,0mm Pin Length = T4	2 Pin = P2			
		CD 293 = BZ			6,3mm Pin Length = T6	3 Pin = P3			
		CD 294 = BW			Soldering Pin = S4	4 Pin = P4			
		CD 295 = BC				5 Pin = P5			
		CD 296 = KC			preferred				
		CD 297 = BB							
		CD 299 = PG							
		CD 29D = HR							
		CD 29H = QH							
		CD 29L = QL							
		HCP = CP							
		HPM = PM							
		HVC = VC							

## Technical Specification SMD Type

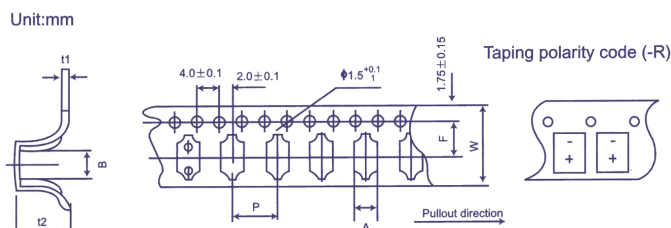
### Dimensions



Ø D x L	4x5,4	5x5,4	6,3x5,4	6,3x7,7	8x10,5	8x11,8	10x10,5	10x12,7
A	1,8	2,1	2,4	2,5	2,9	2,9	3,2	3,2
B	4,3	5,3	6,6	6,6	8,3	8,4	10,3	10,4
C	4,3	5,3	6,6	6,6	8,3	8,4	10,3	10,4
E	1,0	1,3	2,2	2,2	3,1	3,1	4,5	4,5
L	5,4	5,4	5,4	7,7	10,5	11,8	10,5	12,7
W	0,5 - 0,8				0,7 - 1,1			

in mm

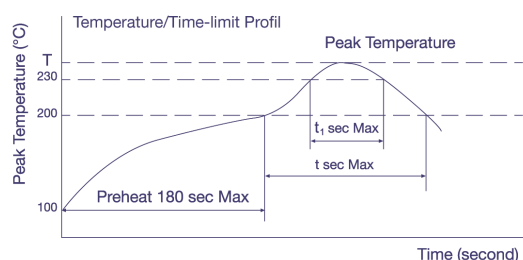
### Taping Dimensions



Size (DxL)	w ± 0,3	A ± 0,2	B ± 0,2	P ± 0,1	t2 ± 0,2	F ± 0,1	t1 ± 0,1
4 x 5,4	12,0	5,0	5,0	8,0	5,8	5,5	0,4
5 x 5,4	12,0	6,0	6,0	12,0	5,8	5,5	0,4
6,3 x 5,4	16,0	7,0	7,0	12,0	5,8	7,5	0,4
6,3 x 7,7	16,0	7,0	7,0	12,0	8,4	7,5	0,4
8 x 10,5	24,0	8,7	8,7	16,0	11,0	11,5	0,5
8 x 11,8	24,0	8,7	8,7	16,0	12,3	11,5	0,5
10 x 10,5	24,0	10,7	10,7	16,0	11,0	11,5	0,5
10 x 12,7	24,0	10,7	10,7	16,0	14,0	11,5	0,5

in mm

### Soldering Profile (Aluminium Electrolytic Capacitors)

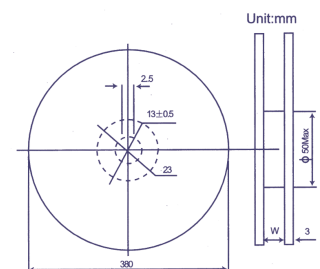


### Allowable Range of Peak Temperature

Size	T (°C)	t (second)	t <sub>1</sub> (second)
Ø 4 ~ 6,3	250	90	40
Ø 8 x 10,5	240	90	30
Ø 10 x 10,5	235	60	30

Diameter	w	D
4; 5	14 ± 1	50 ± 1
6,3	18 ± 1	50 ± 1
8; 10	25 ± 1	50 ± 1
Polymer	25 ± 1	80 ± 1

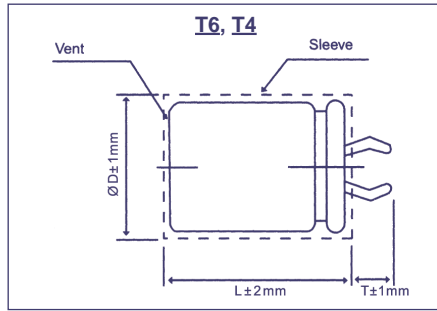
in mm



For more details or Soldering Profiles of Radials or Polymer-Capacitors please contact our local Sales Offices.

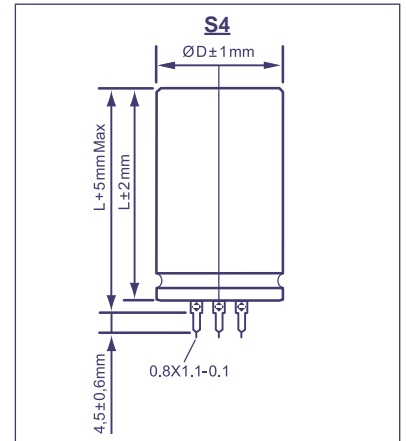
## Technical Specification Snap-In Type

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

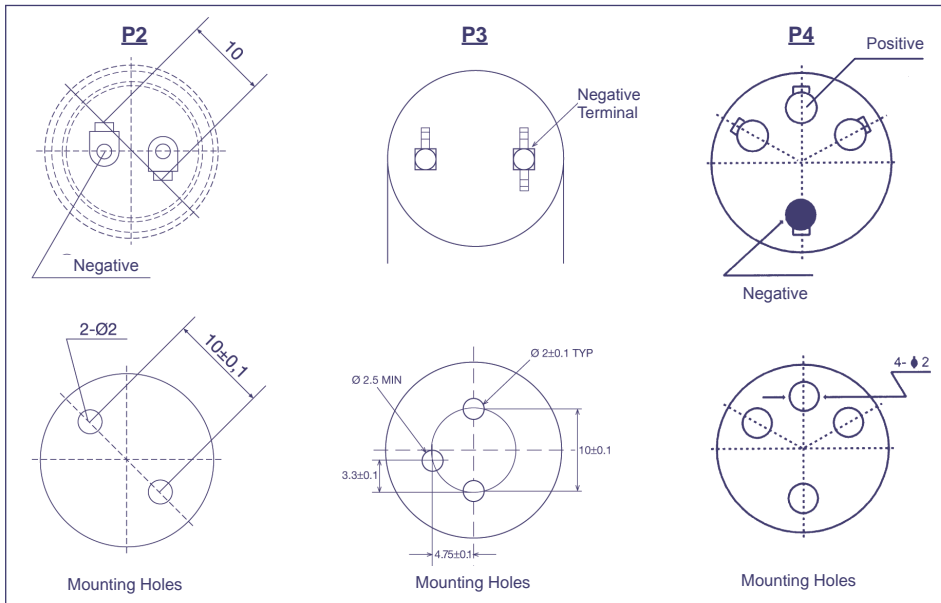


Terminal	T6	T4
Pin Length T	6,3	4,0

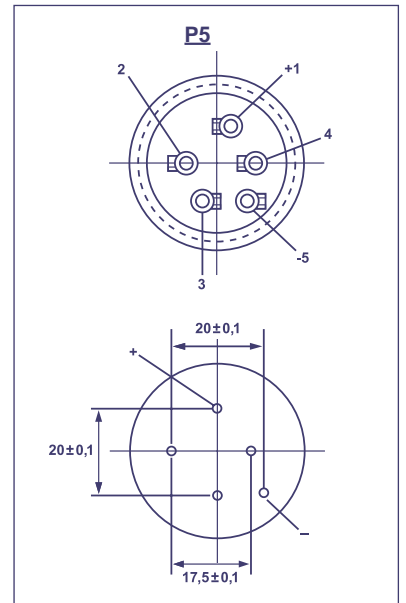
**Pin Type: Soldering**  
Order Code: S4



**Snap-In Terminal**  
Order Code: P2, P3, P4



**Soldering Terminal**  
Order Code: P5



P3 only T4 Terminal

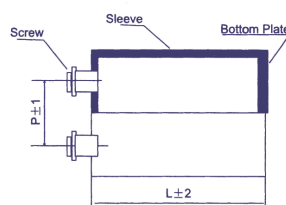
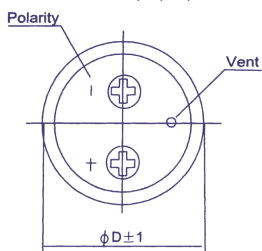
## Order Code Screw Type

EC	G	1C	BP	101	M	B	E	160	A361	JExxxxx
Technology	Terminal Type	Rated Voltage Code	Series Code	Capacitance Code	Capacitance Tolerance	Mounting	Diameter	Length	For Terminal Code see tables below	for Specials only
EC = Electrolytic Capacitor	Screw = G	For coding please refer to the pages of ratings	CD 135 = BP	100 = 101	±20% = M	Bolt = B	36 = A	53 = 053		
			CD 136 = PK	1000 = 102	±10% = K	No double sleeve = N	40 = B	65 = 065		
			CD 137 = PX	10000 = 103	+30 / -10% = Q	2 stoppers bracket+double sleeve* = I	51 = C	96 = 096		
			CD 138 = PC		+20 / -0% = R	3 stoppers bracket+double sleeve* = Y	64 = D	100 = 100		
			CD 139 = BL		+50 / -10% = T	No bracket, but double sleeve* = D	77 = E	115 = 115		
				<b>preferred</b>	* Double sleeve for diameter ≥ 51 only		90 = F	236 = 236		
							101 = G			

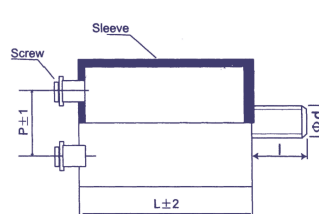
## Technical Specification Screw Type

### Dimensions

**Standard Housing**  
Order Code: I, Y, D, N



**Bolt Housing**  
Order Code: B



Ø D	Ø d	l
Ø 36	M8	12
≥ Ø 51	M12	16

in mm