

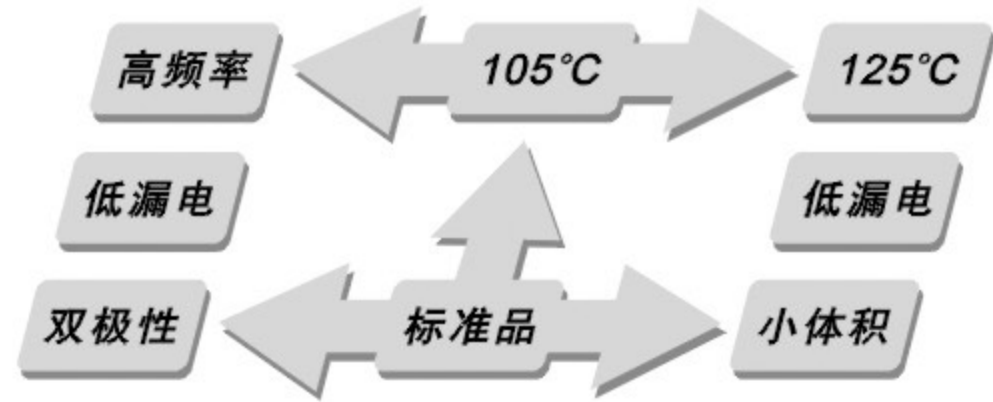
高频率 耐纹波 小型铝电解电容器

CT Series Aluminum Electrolytic Capacitors

● 特点:

105°C 超低阻抗产品。105°C Ultra low impedance. 高频、低阻抗、耐纹波。

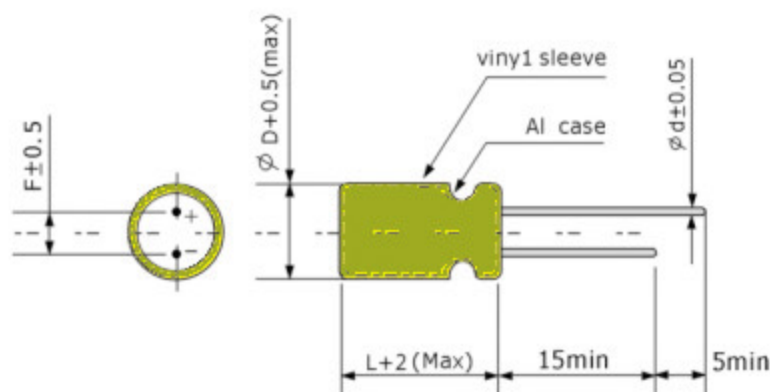
Enabled high ripple current by a reduction of Impedance at high frequency range.



主要技术性能 Specifications

使用温度范围 Operating temperature range	-40 ~ +105°C							
额定电压范围 Rated voltage range	10~450VDC							
标称电容量范围 Nominal capacitance range	1 ~ 4700uF							
标称电容量允许偏差 Capacitance tolerance	± 20% (25°C, 120Hz)							
漏电流 Leakage current	$I < 0.01C_R U_R + 10(\mu A)$ (after 2 minutes)							
损耗角正切值(tg δ) Dissipation factor (25°C, 120HZ)	容量大于1000uF者,每增加1000uF,其损耗角正切值增加0.02							
	U _R (V)	10	16	25	35	50~100	160~250	350~450
	tg δ ≤	0.12	0.10	0.09	0.08	0.07	0.12	0.09
0.02 is added to every 1000uF increase over 1000uF								
温度特性 Temperature characteristics (120HZ)	容量大于1000uF者,每增加1000uF,阻抗比增加1							
	U _R (V)	10~16		25~160		200~450		
	Z-25°C/Z+20°C	3		2		4		
Z-40°C/Z+20°C	6		4		7			
1 is added to every 1000uF increase over 1000uF								
耐久性 Load life	+105°C加带纹波电流的额定电压2000小时,恢复16小时后: After applying rated voltage with specified ripple current for 2000 hours at +105°C and then resumed 16 hours: 电容量变化率 Capacitance change: ±20%初始测量值以内 Initial measured value 漏电流 Leakage current: < 初始规定值 Initial specified value 损耗角正切值Dissipation factor: < 200%初始规定值 Initial specified value							

外型图及尺寸表



耐纹波电流修正系数

频率 (HZ)	120	1K	10K	100K
1~220uF	0.50	0.73	0.92	1.00
330~680uF	0.55	0.77	0.94	1.00
1000~1800uF	0.60	0.80	0.96	1.00
2200~4700uF	0.70	0.85	0.98	1.00

Case size table

ΦD	±0.5					
F±0.5	6.3	8	10	13	16	18
d±0.05	2.5	3.5	5.0	5.0	7.5	7.5
	0.5	0.5	0.6	0.6	0.8	0.8

CT Series Aluminum Electrolytic Capacitors
系列铝电解电容器

Case size: Dxl(mm)
Max impedance: 25°C 100KHZ
Max: ripple current: mA(rms)
(R.C.):105°C 100KHZ

规格尺寸对照表

U _R C _R uF	10V (1A)			16V (1C)			25V (1E)			35V (1V)		
	DXL	IMP.	R.C.	DXL	IMP.	R.C.	DXL	IMP.	R.C.	DXL	IMP.	R.C.
68 (680)	-	-	-	-	-	-	-	-	-	8X12	0.374	290
100 (101)	5 X11	0.65	200	6.3X12	0.348	260	6.3X12	0.330	330	8X12	0.311	390
220 (221)	6.3X12	0.190	360	6.3X12	0.180	430	8X12	0.170	590	8X16	0.161	660
330 (331)	8X12	0.152	480	8X12	0.144	570	8X16	0.136	760	10X16	0.129	950
470 (471)	8X12	0.124	620	8X16	0.118	710	10X16	0.112	970	10X20	0.105	1120
680 (681)	8X16	0.098	780	8X16	0.093	920	10X20	0.088	1270	13X20	0.083	1480
1000 (102)	10X16	0.080	1020	10X16	0.076	1220	13X20	0.072	1690	13X25	0.068	1940
2200 (222)	13X20	0.046	1670	13X20	0.043	1960	16X25	0.041	2790	16X30	0.039	2890
3300 (332)	13X25	0.038	2080	13X30	0.036	2520	16X30	0.034	3110	-	-	-
4700 (472)	13X30	0.032	2580	16X30	0.031	2700	-	-	-	-	-	-

U _R C _R uF	50V (1H)			63V (1J)			100V (2A)		
	DXL	IMP.	R.C.	DXL	IMP.	R.C.	DXL	IMP.	R.C.
47 (470)	8X12	0.453	280	8X12	0.424	340	10X14	0.368	450
68 (680)	8X12	0.352	370	8X14	0.330	440	10X16	0.286	530
100 (101)	8X14	0.292	490	8X14	0.274	560	13X20	0.238	710
220 (221)	10X16	0.151	820	10X20	0.142	960	13X30	0.123	1180
330 (331)	10X22	0.121	1090	13X20	0.113	1290	16X30	0.098	1680
470 (471)	13X20	0.099	1430	16X22	0.093	1670	16X35	0.078	1890
680 (681)	13X25	0.078	1860	16X25	0.073	2080	-	-	-
1000 (102)	16X25	0.064	2560	16X35	0.055	2350	-	-	-

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Case size: Dxl(mm)
Max impedance: 25°C 100KHZ
Max: ripple current: mA(rms)
(R.C.):105°C 100KHZ

规格尺寸对照表

U _R C _R uF	160V (2C)			200V (2D)			250V (2E)		
	DXL	IMP.	R.C.	DXL	IMP.	R.C.	DXL	IMP.	R.C.
3.3 (3R3)	6.3X12	16	23	6.3X12	19	29	8X12	30	32
4.7 (4R7)	8X12	23	16	8X12	25	20	8X16	40	23
6.8 (6R8)	8X12	28	11	8X12	28	14	10X16	52	16
10 (100)	8X16	38	7.2	8X16	38	9.5	10X20	76	11
22 (220)	10X20	95	3.3	10X20	96	4.2	13X20	130	5
33 (330)	13X20	125	2.1	13X20	102	2.9	13X20	150	3.2
47 (470)	13X20	145	1.5	13X25	170	2	16X25	230	2.3
68 (680)	13X25	190	1.1	16X25	210	1.4	-	-	-
100 (101)	16X25	270	0.71	16X30	285	0.94	-	-	-
220 (221)	18X35	550	0.32	18X35	450	0.38	-	-	-

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U _R C _R uF	350V (2V)		400V (2G)		450V (2W)	
	DXL	Impedance	DXL	Impedance	DXL	Impedance
1 (010)	6.3X11	12	8X12	19	8X14	19
2.2 (2R2)	8X12	18	8X14	28	10X16	39
3.3 (3R3)	8X16	26	10X16	40	10X20	43
4.7 (4R7)	10X16	40	10X20	52	13X20	52
6.8 (6R8)	10X20	52	13X20	61	13X20	61
10 (100)	10X20	70	13X20	79	13X25	96
22 (220)	13X25	145	16X25	157	-	-
33 (330)	16X25	200	16X25	195	-	-
47 (470)	16X30	250	16X35	275	-	-