

Rubycon

引线型铝电解电容器

RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

HGX

HGX 系列
SERIES

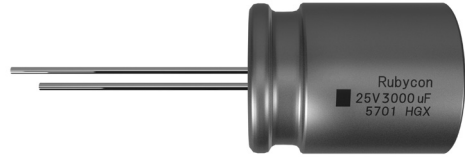
UPGRADE

125°C 3000小时, 135°C 3000小时品
Load Life: 125°C 3000 hours, 135°C 3000 hours

- 小型大容量 高纹波电流 低ESR 车载专用高信赖性。
Miniaturized, High Capacitance, High Ripple Current, Low ESR, High Reliability.
- 最适合低压逆变器等的DC链接用。
Suitable for DC Link of low voltage inverter.
- 可对应AEC-Q200。
AEC-Q200.

RoHS
compliance

车载专用
Automotive only



规格表 / SPECIFICATIONS

项目 Items	特性 Characteristics																		
工作温度范围 Category Temperature Range	-40~+135°C (150°C)																		
额定电压范围 Rated Voltage Range	25~70Vdc																		
静电容量允许差 Capacitance Tolerance	±20% (20°C, 120Hz)																		
漏电流 Leakage Current(MAX)	小于 $I=0.03CV$ 和 $4\mu A$ 中的较大值 (施加额定电压1分钟后) $I=0.03CV$ or $4\mu A$ whichever is greater. (After 1 minute)																		
	I =漏电流(μA) Leakage Current C =静电容量(μF) Capacitance V =额定电压(Vdc) Rated Voltage																		
损失角正切值 ($\tan \delta$) Dissipation Factor(MAX)	<table border="1"> <tr> <td>额定电压(Vdc) Rated Voltage</td> <td>25</td> <td>35</td> <td>50</td> <td>70</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>$\tan \delta$</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td></td> </tr> </table> <p>对于静电容量超过1000μF的产品, 其静电容量每增加1000μF, 则损失角正切值在上表值的基础上加上0.02。 When capacitance is over 1000μF, $\tan \delta$ shall be added 0.02 to the listed value with increase of every 1000μF.</p>	额定电压(Vdc) Rated Voltage	25	35	50	70	(20°C, 120Hz)	$\tan \delta$	0.14	0.12	0.10	0.10							
额定电压(Vdc) Rated Voltage	25	35	50	70	(20°C, 120Hz)														
$\tan \delta$	0.14	0.12	0.10	0.10															
耐久性 Endurance	<p>在125°C或是135°C, 施加额定电压 (重叠额定纹波电流) 3000小时 ($\geq 50Vdc:2000$小时) 后, 满足以下项目。 After applying rated voltage with rated ripple current for 3000 hours ($\geq 50Vdc:2000$ hours) at each temperature, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>静电容量变化率 Capacitance Change</td> <td>初期值的±30%以内 Within ±30% of the initial value.</td> </tr> <tr> <td>损失角正切值 Dissipation Factor</td> <td>规格值的300%以下 Not more than 300% of the specified value.</td> </tr> <tr> <td>漏电流 Leakage Current</td> <td>规格值以下 Not more than the specified value.</td> </tr> </table>	静电容量变化率 Capacitance Change	初期值的±30%以内 Within ±30% of the initial value.	损失角正切值 Dissipation Factor	规格值的300%以下 Not more than 300% of the specified value.	漏电流 Leakage Current	规格值以下 Not more than the specified value.												
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漏电流 Leakage Current	规格值以下 Not more than the specified value.																		
过温度耐性 Over temperature proof	<p>在150°C中施加额定电500小时后, 满足以下各项。 After applying rated voltage for 500 hours at 150°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>静电容量变化率 Capacitance Change</td> <td>初期值的±30%以内 Within ±30% of the initial value.</td> </tr> <tr> <td>损失角正切值 Dissipation Factor</td> <td>规格值的300%以下 Not more than 300% of the specified value.</td> </tr> <tr> <td>漏电流 Leakage Current</td> <td>规格值以下 Not more than the specified value.</td> </tr> </table>	静电容量变化率 Capacitance Change	初期值的±30%以内 Within ±30% of the initial value.	损失角正切值 Dissipation Factor	规格值的300%以下 Not more than 300% of the specified value.	漏电流 Leakage Current	规格值以下 Not more than the specified value.												
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低温特性 Low Temperature Stability (阻抗比) Impedance Ratio(MAX)	<table border="1"> <tr> <td>额定电压(Vdc) Rated Voltage</td> <td>25</td> <td>35</td> <td>50</td> <td>70</td> <td>(120Hz)</td> </tr> <tr> <td>$Z(-25^\circ C) / Z(20^\circ C)$</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>$Z(-40^\circ C) / Z(20^\circ C)$</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </table>	额定电压(Vdc) Rated Voltage	25	35	50	70	(120Hz)	$Z(-25^\circ C) / Z(20^\circ C)$	2	2	2	2		$Z(-40^\circ C) / Z(20^\circ C)$	3	3	3	3	
额定电压(Vdc) Rated Voltage	25	35	50	70	(120Hz)														
$Z(-25^\circ C) / Z(20^\circ C)$	2	2	2	2															
$Z(-40^\circ C) / Z(20^\circ C)$	3	3	3	3															

纹波电流修正系数 / MULTIPLIER FOR RIPPLE CURRENT

频率(Hz) Frequency	120	1k	10k	100k \leq
系数 Coefficient	0.45	0.80	1.00	1.00

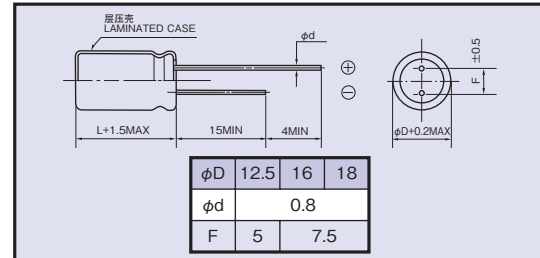
副记号 / OPTION

标准品为空白。
Standard item is blank.

产品型号体系 / PART NUMBER

□□□	HGX	□□□□□	M	□□□	□□	D×L
额定电压 Rated Voltage	系列名称 Series	静电容量 Capacitance	静电容量允许差 Capacitance Tolerance	副记号 Option	引线加工记号 Lead Forming	铝壳尺寸 Case Size

尺寸图 / DIMENSIONS (mm)



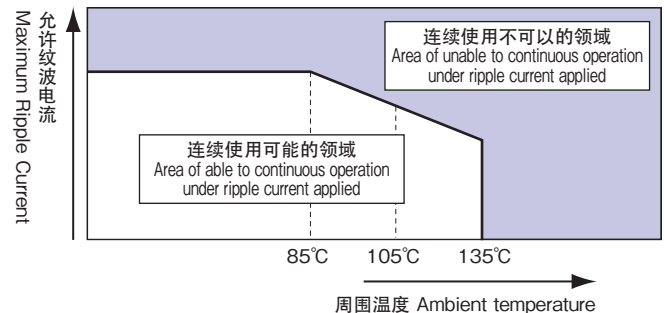
◆标准品一览表 / STANDARD SIZE

额定电压 Rated Voltage (Vdc)	静电容量 Capacitance (μ F)	外形尺寸 Size ϕ D \times L (mm)	额定纹波电流 I_0 Rated ripple current I_0 (mA r.m.s./ 100kHz)		ESR (Ω max/ 100kHz)	允许纹波电流 I_{MAX} MAX ripple current I_{MAX} (mA r.m.s./ 100kHz)		
			135 $^{\circ}$ C	125 $^{\circ}$ C		20 $^{\circ}$ C	135 $^{\circ}$ C	125 $^{\circ}$ C
25	910	12.5 \times 20	2060	2870	0.046	2260	2920	3910
	1100	12.5 \times 23	2390	3340	0.038	2620	3390	4550
	1300	12.5 \times 25	2610	3640	0.034	2860	3700	4960
	1600	12.5 \times 20	2060	2870	0.046	2260	2920	3910
	1600	12.5 \times 30	3030	4230	0.029	3330	4300	5770
	1600	16 \times 20	2320	3240	0.034	2550	3300	4420
	2000	16 \times 23	2690	3760	0.028	2960	3820	5120
	2000	18 \times 20	2490	3470	0.033	2730	3520	4730
	2200	12.5 \times 23	2390	3340	0.038	2620	3390	4550
	2200	16 \times 25	2930	4090	0.025	3210	4150	5570
	2400	12.5 \times 25	2610	3640	0.034	2860	3700	4960
	2400	18 \times 23	2880	4010	0.027	3160	4080	5470
	2700	16 \times 30	3280	4580	0.021	3610	4660	6250
	2700	18 \times 25	3120	4360	0.025	3430	4430	5940
	3000	12.5 \times 30	3030	4230	0.029	3330	4300	5770
	3000	16 \times 20	2320	3240	0.034	2550	3300	4420
	3600	18 \times 30	3460	4840	0.021	3800	4910	6590
	3900	16 \times 23	2690	3760	0.028	2960	3820	5120
	3900	18 \times 20	2490	3470	0.033	2730	3520	4730
	4300	16 \times 25	2930	4090	0.025	3210	4150	5570
4700	18 \times 23	2880	4010	0.027	3160	4080	5470	
5600	16 \times 30	3280	4580	0.021	3610	4660	6250	
5600	18 \times 25	3120	4360	0.025	3430	4430	5940	
6800	18 \times 30	3460	4840	0.021	3800	4910	6590	
35	750	12.5 \times 20	2060	2870	0.046	2260	2920	3910
	910	12.5 \times 23	2390	3340	0.038	2620	3390	4550
	1000	12.5 \times 25	2610	3640	0.034	2860	3700	4960
	1200	12.5 \times 20	2060	2870	0.046	2260	2920	3910
	1300	12.5 \times 30	3030	4230	0.029	3330	4300	5770
	1300	16 \times 20	2320	3240	0.034	2550	3300	4420
	1500	12.5 \times 23	2390	3340	0.038	2620	3390	4550
	1600	12.5 \times 25	2610	3640	0.034	2860	3700	4960
	1600	16 \times 23	2690	3760	0.028	2960	3820	5120
	1600	18 \times 20	2490	3470	0.033	2730	3520	4730
	1800	16 \times 25	2930	4090	0.025	3210	4150	5570
	2000	16 \times 20	2320	3240	0.034	2550	3300	4420
	2000	18 \times 23	2880	4010	0.027	3160	4080	5470
	2200	12.5 \times 30	3030	4230	0.029	3330	4300	5770
	2400	16 \times 30	3280	4580	0.021	3610	4660	6250
	2400	18 \times 25	3120	4360	0.025	3430	4430	5940
	2700	16 \times 23	2690	3760	0.028	2960	3820	5120
	2700	18 \times 20	2490	3470	0.033	2730	3520	4730
	3000	16 \times 25	2930	4090	0.025	3210	4150	5570
	3000	18 \times 30	3460	4840	0.021	3800	4910	6590
3300	18 \times 23	2880	4010	0.027	3160	4080	5470	
3600	16 \times 30	3280	4580	0.021	3610	4660	6250	
3600	18 \times 25	3120	4360	0.025	3430	4430	5940	
4700	18 \times 30	3460	4840	0.021	3800	4910	6590	

额定电压 Rated Voltage (Vdc)	静电容量 Capacitance (μ F)	外形尺寸 Size ϕ D \times L (mm)	额定纹波电流 I_0 Rated ripple current I_0 (mA r.m.s./ 100kHz)		ESR (Ω max/ 100kHz)	允许纹波电流 I_{MAX} MAX ripple current I_{MAX} (mA r.m.s./ 100kHz)		
			135 $^{\circ}$ C	125 $^{\circ}$ C		20 $^{\circ}$ C	135 $^{\circ}$ C	125 $^{\circ}$ C
50	510	12.5 \times 20	1530	2280	0.072	1860	2400	3220
	620	12.5 \times 20	1490	2220	0.076	1800	2330	3130
	620	12.5 \times 23	1780	2660	0.058	2160	2790	3750
	680	12.5 \times 25	1950	2900	0.052	2360	3050	4090
	750	12.5 \times 23	1730	2590	0.062	2100	2710	3640
	910	12.5 \times 25	1890	2820	0.055	2290	2960	3980
	910	12.5 \times 30	2320	3460	0.042	2810	3630	4880
	910	16 \times 20	1890	2820	0.049	2290	2960	3980
	1100	12.5 \times 30	2250	3370	0.044	2730	3530	4740
	1100	16 \times 20	1860	2780	0.051	2260	2920	3910
	1100	16 \times 23	2200	3280	0.040	2660	3440	4620
	1100	18 \times 20	2060	3070	0.047	2490	3220	4320
	1300	16 \times 23	2160	3230	0.041	2620	3390	4540
	1300	16 \times 25	2390	3570	0.036	2900	3750	5030
	1300	18 \times 20	2040	3050	0.047	2470	3200	4290
	1300	18 \times 23	2390	3560	0.038	2900	3740	5020
	1600	16 \times 25	2350	3510	0.037	2860	3690	4950
	1600	16 \times 30	2840	4240	0.029	3440	4450	5970
	1600	18 \times 23	2370	3540	0.039	2870	3710	4980
	1600	18 \times 25	2600	3880	0.034	3150	4070	5470
2000	16 \times 30	2790	4170	0.030	3390	4370	5870	
2000	18 \times 25	2580	3850	0.034	3130	4040	5420	
2000	18 \times 30	3080	4600	0.027	3740	4830	6480	
2400	18 \times 30	3050	4560	0.028	3700	4780	6420	
70	240	12.5 \times 20	1340	2000	0.093	1630	2100	2820
	330	12.5 \times 23	1560	2340	0.076	1900	2450	3290
	360	12.5 \times 20	1300	1940	0.099	1580	2040	2740
	360	12.5 \times 25	1710	2550	0.067	2070	2680	3600
	430	12.5 \times 23	1520	2260	0.080	1840	2380	3190
	430	16 \times 20	1690	2530	0.062	2050	2650	3560
	470	12.5 \times 30	2040	3040	0.054	2470	3190	4290
	510	12.5 \times 25	1660	2470	0.072	2010	2600	3490
	560	16 \times 23	1970	2940	0.050	2390	3080	4140
	560	18 \times 20	1860	2780	0.057	2260	2920	3920
	620	12.5 \times 30	1980	2950	0.057	2400	3100	4150
	620	16 \times 20	1660	2480	0.064	2010	2600	3490
	620	16 \times 25	2150	3200	0.045	2600	3360	4510
	680	18 \times 23	2160	3230	0.047	2620	3390	4540
	750	16 \times 23	1930	2880	0.052	2340	3020	4060
	750	18 \times 20	1840	2750	0.058	2230	2880	3870
	820	16 \times 30	2550	3800	0.036	3090	3990	5360
	820	18 \times 25	2350	3510	0.042	2860	3690	4950
	910	16 \times 25	2100	3140	0.047	2550	3300	4420
	1000	18 \times 23	2140	3190	0.048	2590	3350	4490
1000	18 \times 30	2790	4170	0.033	3390	4380	5870	
1100	16 \times 30	2500	3730	0.038	3030	3910	5250	
1100	18 \times 25	2330	3470	0.042	2820	3650	4890	
1300	18 \times 30	2760	4120	0.034	3350	4330	5810	

额定纹波电流 I_0 : 满足耐久性规格、连续施加可能的纹波电流。
Rated ripple current I_0 :
Ripple current continuous operation within endurance lifetime.

允许纹波电流 I_{MAX} : 连续施加可能的纹波电流最大值。
请按照寿命计算式推算寿命时间。
Maximum ripple current I_{MAX} :
Maximum ripple current continuous operation.
Estimated lifetime complies with our lifetime calculation formula.



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[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)