

HP 系列 SERIES



- 电焊机专用标准品。
Special design for welding machine.
- 保证 105℃、2000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 2000 hours at 105℃
- 额定工作电压范围: 16V~450V
Rated voltage range: 16V-450V

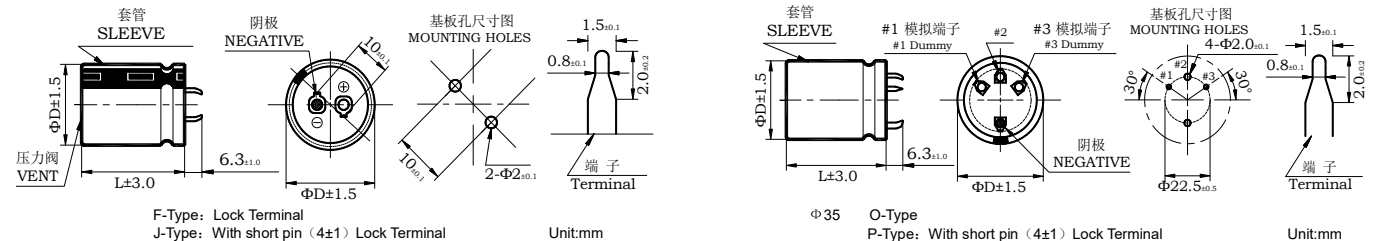
规格表 SPECIFICATIONS

项目 Items	特性 Characteristics																															
工作温度范围 Operating Temperature Range	-40~+105℃	-25~+105℃																														
额定工作电压范围 Rated Working Voltage Range	16~100V	160~450V																														
静电容量允许偏差 Capacitance Tolerance	±20% (20℃, 120Hz)																															
损耗角正切值 Dissipation Factor (MAX) 20℃, 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160~315</td> <td>350~400</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.18</td> <td>0.20</td> </tr> </table>										U _R (V)	16	25	35	50	63	80	100	160~315	350~400	450	tanδ	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.18	0.20
U _R (V)	16	25	35	50	63	80	100	160~315	350~400	450																						
tanδ	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.18	0.20																						
阻抗比 Impedance Ratio (MAX) 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>16~100</td> <td>160~200</td> <td>250</td> <td>315</td> <td>350~400</td> <td>450</td> </tr> <tr> <td>Z_{25℃/Z+20℃}</td> <td>4</td> <td>3</td> <td>4</td> <td>7</td> <td>7</td> <td>8</td> </tr> <tr> <td>Z_{40℃/Z+20℃}</td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										U _R (V)	16~100	160~200	250	315	350~400	450	Z _{25℃/Z+20℃}	4	3	4	7	7	8	Z _{40℃/Z+20℃}	18						
U _R (V)	16~100	160~200	250	315	350~400	450																										
Z _{25℃/Z+20℃}	4	3	4	7	7	8																										
Z _{40℃/Z+20℃}	18																															
漏电流 Leakage Current (MAX)	I=0.01C _R U _R 或 1.5mA 取小者 (20℃, 施加额定电压 5 分钟后) I=0.01C _R U _R or 1.5mA whichever is minimum. (at 20℃, After 5 minutes application of rated voltage) I=漏电流 (µA) U _R =额定电压 (V) C _R =静电容量 (µF) Leakage Current Rated Voltage Rated Capacitance																															

	使用寿命 Useful Life		负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Shelf Life
产品寿命 Life Time	4000h	>180000	2000h	2000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value		≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 tanδ Change	≤规定值的 300% ≤300% of specified value		≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value
静电容量变化率 Capacitance Change	初始值±30%以内 Within±30% of initial value		初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value
施加条件 Condition 施加电压 Applied Voltage 施加纹波电流 Applied Ripple Current 环境温度 Applied Temperature 失效等级 Failure Rate Level	U _R I _R 105℃ ≤1% Failure rate	U _R 1.4×I _R 40℃ ≤1% Failure rate	U _R I _R 105℃ 0%	U _R I _R =0 105℃ 0%	Back up to 20℃ and placed more than 24 hours. U _R to be applied for 60 min before measurement.

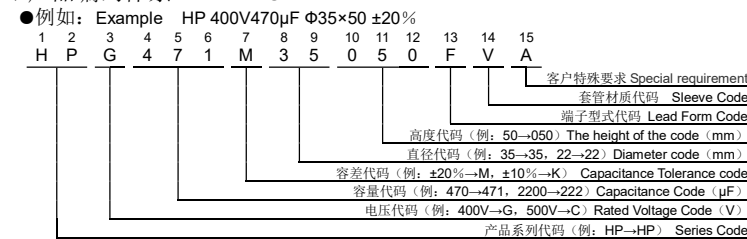
尺寸图 Dimensions

- 常用端子型式代码: Terminal Code



- 记载以外的端子形状, 请另行咨询。Please consult to us for the terminal type not displayed in content.

产品编码体系 PART NUMBER SYSTEM



纹波电流修正系数 Rated Ripple Current Multiplies

●频率修正系数 Frequency coefficient

电压范围 (v) Rated voltage	频率 (Hz) Frequency				
	50 (60)	100 (120)	300	1k	≥10k
16~50WV	0.90	1.00	1.10	1.15	1.15
63~100WV	0.85	1.00	1.17	1.32	1.45
160~450WV	0.80	1.00	1.16	1.30	1.41

●温度修正系数 Temperature coefficient

电压范围 (v) Rated voltage	温度 (℃) Temperature				
	+40	+55	+70	+85	+105
16~450WV	2.7	2.5	2.1	1.7	1.0

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WV _{dc} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	$\tan\delta$ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
16 (20)	6800	22×25	0.50	2.25	HPV682M22025□VA
	8200	22×25	0.50	2.43	HPV822M22025□VA
	10000	22×30	0.50	2.79	HPV103M22030□VA
	10000	25×25	0.50	2.79	HPV103M25025□VA
	12000	22×35	0.50	2.90	HPV123M22035□VA
	12000	25×30	0.50	2.90	HPV123M25030□VA
	12000	30×25	0.50	2.90	HPV123M30025□VA
	15000	22×40	0.50	3.20	HPV153M22040□VA
	15000	25×30	0.50	3.20	HPV153M25030□VA
	15000	30×25	0.50	3.20	HPV153M30025□VA
	18000	22×45	0.50	3.50	HPV183M22045□VA
	18000	25×35	0.50	3.50	HPV183M25035□VA
	18000	30×30	0.50	3.50	HPV183M30030□VA
	18000	35×25	0.50	3.50	HPV183M35025□VA
	22000	25×40	0.50	3.80	HPV223M25040□VA
	22000	30×35	0.50	3.80	HPV223M30035□VA
	22000	35×25	0.50	3.80	HPV223M35025□VA
	27000	25×50	0.50	4.20	HPV273M25050□VA
	27000	30×35	0.50	4.20	HPV273M30035□VA
	27000	35×30	0.50	4.20	HPV273M35030□VA
	33000	30×45	0.50	4.70	HPV333M30045□VA
	33000	35×35	0.50	4.70	HPV333M35035□VA
	39000	30×50	0.50	5.10	HPV393M30050□VA
	39000	35×35	0.50	5.10	HPV393M35035□VA
	47000	30×55	0.50	5.55	HPV473M30055□VA
	47000	35×40	0.50	5.55	HPV473M35040□VA
	56000	30×60	0.50	5.90	HPV563M30060□VA
	56000	35×45	0.50	5.90	HPV563M35045□VA
68000	35×55	0.50	6.30	HPV683M35055□VA	
82000	35×60	0.50	6.40	HPV823M35060□VA	
25 (32)	4700	22×25	0.45	2.04	HPU472M22025□VA
	5600	22×30	0.45	2.23	HPU562M22030□VA
	6800	22×30	0.45	2.40	HPU682M22030□VA
	6800	25×25	0.45	2.40	HPU682M25025□VA
	8200	22×35	0.45	2.70	HPU822M22035□VA
	8200	25×30	0.45	2.70	HPU822M25030□VA
	8200	30×25	0.45	2.70	HPU822M30025□VA
	10000	22×40	0.45	3.00	HPU103M22040□VA
	10000	25×35	0.45	3.00	HPU103M25035□VA
	10000	30×25	0.45	3.00	HPU103M30025□VA
	12000	22×45	0.45	3.20	HPU123M22045□VA
	12000	25×40	0.45	3.20	HPU123M25040□VA
	12000	30×30	0.45	3.20	HPU123M30030□VA
	12000	35×25	0.45	3.20	HPU123M35025□VA
	15000	25×45	0.45	3.60	HPU153M25045□VA
	15000	30×35	0.45	3.60	HPU153M30035□VA
	15000	35×25	0.45	3.60	HPU153M35025□VA
	18000	25×50	0.45	3.90	HPU183M25050□VA
	18000	30×40	0.45	3.90	HPU183M30040□VA
	18000	35×30	0.45	3.90	HPU183M35030□VA
	22000	30×45	0.45	4.30	HPU223M30045□VA
	22000	35×35	0.45	4.30	HPU223M35035□VA
	27000	30×50	0.45	4.80	HPU273M30050□VA
	27000	35×40	0.45	4.80	HPU273M35040□VA
	33000	30×60	0.45	5.55	HPU333M30060□VA
	33000	35×45	0.45	5.55	HPU333M35045□VA
	39000	35×50	0.45	6.00	HPU393M35050□VA
	47000	35×60	0.45	6.56	HPU473M35060□VA

WV _{dc} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	$\tan\delta$ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
35 (44)	2700	22×25	0.40	1.62	HPT272M22025□VA
	3300	22×30	0.40	1.94	HPT332M22030□VA
	3300	25×25	0.40	1.94	HPT332M25025□VA
	3900	22×30	0.40	2.02	HPT392M22030□VA
	3900	25×25	0.40	2.02	HPT392M25025□VA
	4700	22×35	0.40	2.21	HPT472M22035□VA
	4700	25×30	0.40	2.20	HPT472M25030□VA
	4700	30×25	0.40	2.20	HPT472M30025□VA
	5600	22×40	0.40	2.40	HPT562M22040□VA
	5600	25×30	0.40	2.40	HPT562M25030□VA
	5600	30×25	0.40	2.40	HPT562M30025□VA
	6800	22×45	0.40	2.78	HPT682M22045□VA
	6800	25×35	0.40	2.78	HPT682M25035□VA
	6800	30×30	0.40	2.78	HPT682M30030□VA
	6800	35×25	0.40	2.78	HPT682M35025□VA
	8200	22×50	0.40	2.90	HPT822M22050□VA
	8200	25×40	0.40	2.90	HPT822M25040□VA
	8200	30×30	0.40	2.90	HPT822M30030□VA
	8200	35×25	0.40	2.90	HPT822M35025□VA
	10000	25×45	0.40	3.20	HPT103M25045□VA
	10000	30×35	0.40	3.20	HPT103M30035□VA
	10000	35×30	0.40	3.20	HPT103M35030□VA
	12000	25×50	0.40	3.50	HPT123M25050□VA
	12000	30×40	0.40	3.50	HPT123M30040□VA
	12000	35×30	0.40	3.50	HPT123M35030□VA
	15000	30×45	0.40	3.90	HPT153M30045□VA
	15000	35×35	0.40	3.90	HPT153M35035□VA
	18000	30×50	0.40	4.51	HPT183M30050□VA
	18000	35×40	0.40	4.51	HPT183M35040□VA
	22000	35×50	0.40	5.24	HPT223M35050□VA
	27000	35×55	0.40	5.60	HPT273M35055□VA
	50 (63)	1500	22×25	0.35	1.29
1800		22×25	0.35	1.53	HPR182M22025□VA
2200		22×30	0.35	1.72	HPR222M22030□VA
2200		25×25	0.35	1.70	HPR222M25025□VA
2700		22×30	0.35	1.82	HPR272M22030□VA
2700		25×25	0.35	1.80	HPR272M25025□VA
3300		22×35	0.35	2.01	HPR332M22035□VA
3300		25×30	0.35	2.01	HPR332M25030□VA
3300		30×25	0.35	2.01	HPR332M30025□VA
3900		22×40	0.35	2.23	HPR392M22040□VA
3900		25×35	0.35	2.23	HPR392M25035□VA
3900		30×25	0.35	2.23	HPR392M30025□VA
4700		22×45	0.35	2.50	HPR472M22045□VA
4700		25×40	0.35	2.50	HPR472M25040□VA
4700		30×30	0.35	2.50	HPR472M30030□VA
4700		35×25	0.35	2.50	HPR472M35025□VA
5600		22×50	0.35	2.80	HPR562M22050□VA
5600		25×40	0.35	2.80	HPR562M25040□VA
5600		30×35	0.35	2.80	HPR562M30035□VA
5600		35×25	0.35	2.80	HPR562M35025□VA
6800		25×50	0.35	3.30	HPR682M25050□VA
6800		30×40	0.35	3.30	HPR682M30040□VA
6800		35×30	0.35	3.30	HPR682M35030□VA
8200		30×45	0.35	3.85	HPR822M30045□VA
8200		35×35	0.35	3.85	HPR822M35035□VA
10000		30×50	0.35	4.49	HPR103M30050□VA
10000		35×40	0.35	4.49	HPR103M35040□VA

*产品编码中□内为产品端子引出型式代码
*□Enter the appropriate terminal code

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WV _{dc} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
160 (200)	1500	35×40	0.15	2.84	HPN152M35040□VA
	1800	30×60	0.15	3.32	HPN182M30060□VA
	1800	35×45	0.15	3.32	HPN182M35045□VA
	2200	35×55	0.15	3.60	HPN222M35055□VA
	2700	35×60	0.15	4.16	HPN272M35060□VA
200 (250)	150	22×25	0.15	0.70	HPL151M22025□VA
	180	22×25	0.15	0.80	HPL181M22025□VA
	220	22×25	0.15	1.00	HPL221M22025□VA
	270	22×30	0.15	1.10	HPL271M22030□VA
	270	25×25	0.15	1.10	HPL271M25025□VA
	330	22×35	0.15	1.25	HPL331M22035□VA
	330	25×25	0.15	1.25	HPL331M25025□VA
	390	22×35	0.15	1.35	HPL391M22035□VA
	390	25×30	0.15	1.35	HPL391M25030□VA
	390	30×25	0.15	1.36	HPL391M30025□VA
	470	22×40	0.15	1.50	HPL471M22040□VA
	470	25×35	0.15	1.50	HPL471M25035□VA
	470	30×25	0.15	1.50	HPL471M30025□VA
	560	22×45	0.15	1.67	HPL561M22045□VA
	560	25×35	0.15	1.60	HPL561M25035□VA
	560	30×30	0.15	1.67	HPL561M30030□VA
	560	35×25	0.15	1.60	HPL561M35025□VA
	680	25×45	0.15	1.78	HPL681M25045□VA
	680	30×35	0.15	1.78	HPL681M30035□VA
	680	35×25	0.15	1.78	HPL681M35025□VA
	820	25×50	0.15	2.00	HPL821M25050□VA
	820	30×40	0.15	2.04	HPL821M30040□VA
	820	35×30	0.15	2.00	HPL821M35030□VA
	1000	30×45	0.15	2.30	HPL102M30045□VA
	1000	35×35	0.15	2.30	HPL102M35035□VA
	1200	30×50	0.15	2.65	HPL122M30050□VA
1200	35×40	0.15	2.65	HPL122M35040□VA	
1500	30×60	0.15	3.12	HPL152M30060□VA	
1500	35×30	0.15	3.12	HPL152M35030□VA	
1800	35×50	0.15	3.50	HPL182M35050□VA	
2200	35×60	0.15	4.32	HPL222M35060□VA	
250 (300)	100	22×25	0.15	0.50	HPJ101M22025□VA
	120	22×25	0.15	0.58	HPJ121M22025□VA
	150	22×30	0.15	0.79	HPJ151M22030□VA
	150	25×25	0.15	0.79	HPJ151M25025□VA
	180	22×30	0.15	0.90	HPJ181M22030□VA
	180	25×25	0.15	0.88	HPJ181M25025□VA
	220	22×35	0.15	1.0	HPJ221M22035□VA
	270	25×30	0.15	1.18	HPJ271M25030□VA
	270	22×40	0.15	1.18	HPJ271M22040□VA
	270	25×35	0.15	1.27	HPJ271M25035□VA
	270	30×25	0.15	1.27	HPJ271M30025□VA
	330	22×45	0.15	1.30	HPJ331M22045□VA
	330	25×35	0.15	1.30	HPJ331M25035□VA
	330	30×30	0.15	1.35	HPJ331M30030□VA
	330	35×25	0.15	1.30	HPJ331M35025□VA
	390	22×50	0.15	1.49	HPJ391M22050□VA
	390	25×40	0.15	1.49	HPJ391M25040□VA
	390	30×30	0.15	1.49	HPJ391M30030□VA
	390	35×25	0.15	1.49	HPJ391M35025□VA
	470	25×45	0.15	1.65	HPJ471M25045□VA
470	30×35	0.15	1.65	HPJ471M30035□VA	
470	35×30	0.15	1.65	HPJ471M35030□VA	
250 (300)	560	30×40	0.15	1.80	HPJ561M30040□VA
	560	35×30	0.15	1.80	HPJ561M35030□VA
	680	30×45	0.15	2.00	HPJ681M30045□VA
	680	35×35	0.15	2.00	HPJ681M35035□VA
	820	30×55	0.15	2.30	HPJ821M30055□VA
	820	35×40	0.15	2.30	HPJ821M35040□VA
	1000	30×60	0.15	2.70	HPJ102M30060□VA
	1000	35×50	0.15	2.70	HPJ102M35050□VA
	1200	35×55	0.15	3.09	HPJ122M35055□VA
	315 (365)	82	22×25	0.15	0.64

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WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
350 (400)	330	30×45	0.18	1.34	HPH331M30045□VA
	330	35×35	0.18	1.22	HPH331M35035□VA
	390	30×50	0.18	1.44	HPH391M30050□VA
	390	35×40	0.18	1.44	HPH391M35040□VA
	470	30×50	0.18	1.57	HPH471M30050□VA
	470	35×45	0.18	1.69	HPH471M35045□VA
	560	30×60	0.18	1.85	HPH561M30060□VA
	560	35×50	0.18	1.90	HPH561M35050□VA
	680	35×55	0.18	2.22	HPH681M35055□VA
	820	35×60	0.18	2.40	HPH821M35060□VA
1000	35×60	0.18	3.00	HPH102M35060□VA	
400 (450)	47	22×25	0.18	0.40	HPG470M22025□VA
	56	22×25	0.18	0.51	HPG560M22025□VA
	68	22×25	0.18	0.55	HPG680M22025□VA
	82	22×30	0.18	0.64	HPG820M22030□VA
	82	25×25	0.18	0.64	HPG820M25025□VA
	100	22×30	0.18	0.70	HPG101M22030□VA
	100	25×25	0.18	0.70	HPG101M22025□VA
	120	22×35	0.18	0.75	HPG121M22035□VA
	120	25×30	0.18	0.75	HPG121M25030□VA
	120	30×25	0.18	0.75	HPG121M30025□VA
	150	22×40	0.18	0.83	HPG151M22040□VA
	150	25×35	0.18	0.83	HPG151M25035□VA
	150	30×25	0.18	0.88	HPG151M30025□VA
	180	22×50	0.18	0.96	HPG181M22050□VA
	180	25×40	0.18	0.98	HPG181M25040□VA
	180	30×30	0.18	0.98	HPG181M30030□VA
	180	35×25	0.18	0.98	HPG181M35025□VA
	220	25×45	0.18	1.06	HPG221M25045□VA
	220	30×35	0.18	1.04	HPG221M30035□VA
	220	35×25	0.18	1.10	HPG221M35025□VA
	270	25×50	0.18	1.29	HPG271M25050□VA
	270	30×40	0.18	1.22	HPG271M30040□VA
	270	35×30	0.18	1.22	HPG271M35030□VA
	330	30×45	0.18	1.55	HPG331M30045□VA
	330	35×35	0.18	1.44	HPG331M35035□VA
	390	30×50	0.18	1.60	HPG391M30050□VA
	390	35×40	0.18	1.60	HPG391M35040□VA
	470	30×60	0.18	1.90	HPG471M30060□VA
	470	35×45	0.18	1.90	HPG471M35045□VA
	560	35×50	0.18	2.12	HPG561M35050□VA
	680	35×60	0.18	2.12	HPG681M35060□VA

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
450 (500)	47	22×25	0.20	0.39	HPE470M22025□VA
	56	22×25	0.20	0.50	HPE560M22025□VA
	68	22×30	0.20	0.53	HPE680M22030□VA
	68	25×25	0.20	0.53	HPE680M25025□VA
	82	22×35	0.20	0.64	HPE820M22035□VA
	82	25×30	0.20	0.64	HPE820M25030□VA
	100	22×40	0.20	0.65	HPE101M22040□VA
	100	25×30	0.20	0.64	HPE101M25030□VA
	100	30×25	0.20	0.72	HPE101M30025□VA
	120	22×45	0.20	0.80	HPE121M22045□VA
	120	25×35	0.20	0.80	HPE121M25035□VA
	120	30×30	0.20	0.80	HPE121M30030□VA
	150	22×50	0.20	0.84	HPE151M22050□VA
	150	25×40	0.20	0.88	HPE151M25040□VA
	150	30×30	0.20	0.88	HPE151M30030□VA
	150	35×25	0.20	0.88	HPE151M35025□VA
	180	25×45	0.20	1.00	HPE181M25045□VA
	180	30×35	0.20	1.00	HPE181M30035□VA
	180	35×30	0.20	1.04	HPE181M35030□VA
	220	25×50	0.20	1.12	HPE221M25050□VA
	220	30×40	0.20	1.12	HPE221M30040□VA
	220	35×30	0.20	1.12	HPE221M35030□VA
	270	30×45	0.20	1.28	HPE271M30045□VA
	270	35×35	0.20	1.28	HPE271M35035□VA
	330	30×50	0.20	1.39	HPE331M30050□VA
	330	35×40	0.20	1.45	HPE331M35040□VA
	390	30×60	0.20	1.60	HPE391M30060□VA
	390	35×45	0.20	1.60	HPE391M35045□VA
	470	35×50	0.20	1.85	HPE471M35050□VA
	560	35×60	0.20	2.00	HPE561M35060□VA

*产品编码中□内为产品端子引出型式代码

*□Enter the appropriate terminal code

*记载之外的体积，请另行咨询。

*Please ask for advice for other sizes.

*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.

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[107CKR010M](#) [107CKH063MSA](#) [RJH-25V222MI9#](#) [RJH-35V221MG5#](#) [B43827A1106M8](#) [RJH-50V221MH6#](#) [EKYA500ELL470MF11D](#)
[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)
[EKZH160ETD152MJ20S](#) [RJH-35V122MJ6#](#) [EGXF630ELL621ML20S](#) [RBD-25V100KE3#N](#) [EKMA350ELL100ME07D](#)
[ESMG160ETD101ME11D](#) [ELXY100ETD102MJ20S](#) [EGXF500ELL561ML15S](#) [EKMG350ETD471MJ16S](#) [35YXA330MEFC10X12.5](#)
[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)
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[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)