



贴片型铝电解电容器

CHIP ALUMINUM ELECTROLYTIC CAPACITORS

THV

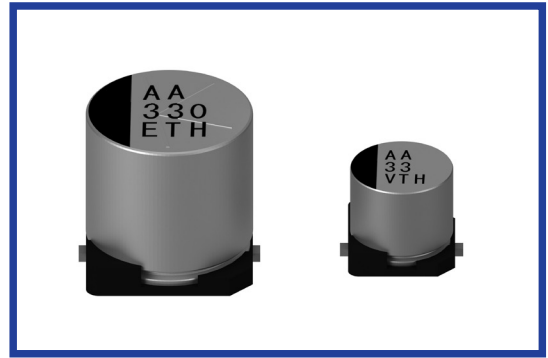
THV 系列

SERIES

125°C 2000~3000小时、低ESR品
Load Life : 125°C 2000~3000 hours Low ESR

·可对应AEC-Q200。
AEC-Q200.

RoHS
compliance

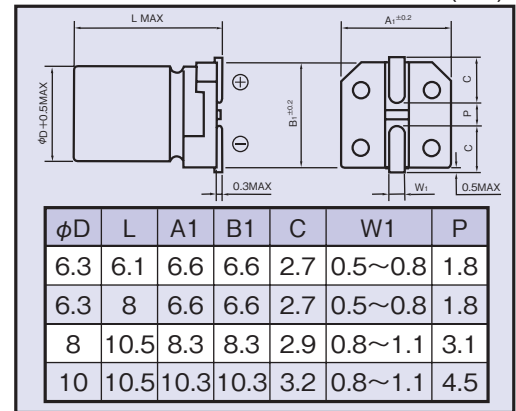


规格表 / SPECIFICATIONS

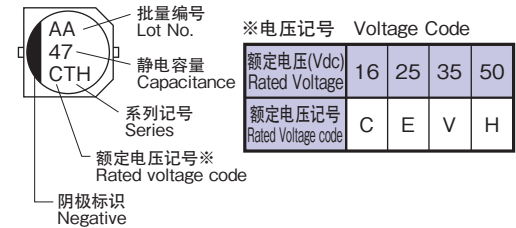
项目 Items	特性 Characteristics													
工作温度范围 Category Temperature Range	-40~+125°C													
额定电压范围 Rated Voltage Range	16~50Vdc													
静电容量允许差 Capacitance Tolerance	±20% (20°C, 120Hz)													
漏电流 Leakage Current(MAX)	小于 $I=0.01CV$ 和 $3\mu A$ 中的较大值 (施加额定电压2分钟后) $I=0.01CV$ or $3\mu A$ whichever is greater. (After 2 minutes application of rated voltage)													
	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 δ) Dissipation Factor(MAX)	<table border="1"> <tr> <th>额定电压(Vdc) Rated Voltage</th> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <th>tanδ</th> <td>0.23</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> </tr> </table> (20°C, 120Hz)	额定电压(Vdc) Rated Voltage	16	25	35	50	tan δ	0.23	0.18	0.16	0.14			
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耐久性 Endurance	在125°C环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载右表时间后, 满足以下各项要求。 After applying rated voltage with rated ripple current for specified time at 125°C, the capacitors shall meet the following requirements.													
	<table border="1"> <tr> <th>静电容量变化率 Capacitance Change</th> <td>初期值的±30%以内 Within ±30% of the initial value.</td> <td>铝壳尺寸 Case Size</td> <td>时间(hrs) Life Time</td> </tr> <tr> <th>损失角正切值 Dissipation Factor</th> <td>规格值的300%以下 Not more than 300% of the specified value.</td> <td>$\phi D=6.3$</td> <td>2000</td> </tr> <tr> <th>漏电流 Leakage Current</th> <td>规格值以下 Not more than the specified value.</td> <td>$\phi D \geq 8$</td> <td>3000</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.	铝壳尺寸 Case Size	时间(hrs) Life Time	损失角正切值 Dissipation Factor	规格值的300%以下 Not more than 300% of the specified value.	$\phi D=6.3$	2000	漏电流 Leakage Current	规格值以下 Not more than the specified value.	$\phi D \geq 8$	3000	
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低温特性 Low Temperature Stability (阻抗比) Impedance Ratio(MAX)	<table border="1"> <tr> <th>额定电压(Vdc) Rated Voltage</th> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <th>$Z(-40^\circ C)/Z(20^\circ C)$</th> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table> (120Hz)	额定电压(Vdc) Rated Voltage	16	25	35	50	$Z(-40^\circ C)/Z(20^\circ C)$	4	4	3	3			
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尺寸图 / DIMENSIONS

(mm)



标识 / MARKING



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

频率(Hz) Frequency	120	1k	10k	100k \leq
10~33 μF	0.45	0.75	0.90	1.00
47~100 μF	0.50	0.80	0.95	1.00
220~330 μF	0.60	0.85	0.95	1.00

标准品一览表 / STANDARD SIZE

Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

Vdc	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR	
				20°C	-40°C
16	33	6.3x6.1	70	1	15
	47	6.3x8	200	0.7	10
	100	6.3x8	200	0.7	10
		8x10.5	300	0.3	4.5
	220	8x10.5	300	0.3	4.5
		10x10.5	500	0.2	3
330	10x10.5	500	0.2	3	

Vdc	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR	
				20°C	-40°C
25	33	6.3x6.1	70	1	15
	47	6.3x8	200	0.7	10
	100	8x10.5	300	0.3	4.5
		8x10.5	300	0.3	4.5
	220	10x10.5	500	0.2	3
		330	10x10.5	500	0.2

Vdc	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR	
				20°C	-40°C
35	22	6.3x8	200	0.7	10
	33	6.3x6.1	70	1	15
		6.3x8	200	0.7	10
	47	6.3x8	200	0.7	10
		8x10.5	300	0.3	4.5
	100	8x10.5	300	0.3	4.5
10x10.5		500	0.2	3	
50	220	10x10.5	500	0.2	3
	10	6.3x6.1	70	1	15
		6.3x8	150	0.9	10
	33	6.3x8	150	0.9	10
		8x10.5	250	0.36	4.5
	47	8x10.5	250	0.36	4.5
10x10.5		350	0.25	3	
100	10x10.5	350	0.25	3	

产品型号体系 / PART NUMBER

□□□	THV	□□□□□	M	□□□	DxL
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	铝壳尺寸 Case Size

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[VES101M1CTR-0605](#) [TYEH1H475E55MTR](#) [6.3SEV22M4X5.5](#) [6.3SEV47M4X5.5](#) [EEEFK1H151GP](#) [EEEFK1A681GP](#) [EEE0GA471XP](#)
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