

TPV series

105°C 2000時間 ESR品  
Load life : 105°C 2000 hours, Low ESR

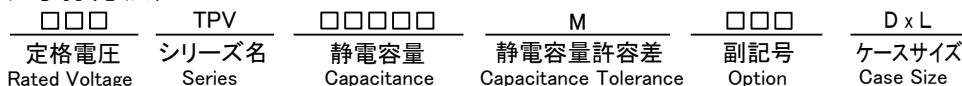
AEC-Q200



◆規格表/SPECIFICATIONS

項目 Item	特性 Characteristics																																
カテゴリ温度範囲 Category Temperature Range	-55~+105°C																																
定格電圧範囲 Rated Voltage Range	6.3~50Vdc																																
静電容量許容差 Capacitance Tolerance	±20%(20°C, 120Hz)																																
漏れ電流 Leakage Current (MAX)	I=0.01CV又は3μAのいずれか大なる値以下(定格電圧印加2分後) I=0.01CV or 3 μA whichever is greater. (After 2 minutes) I=漏れ電流(μA) C=静電容量(μF) V=定格電圧(Vdc) Leakage Current Capacitance Rated Voltage																																
損失角の正接(tan δ) Dissipation Factor(MAX)	<table border="1"> <tr> <td>定格電圧(Vdc) Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tan δ</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td></td> </tr> </table> <p>1000μFを超えるものは1000μF増す毎に上表の値に0.02を加えた値とする。 When rated capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF.</p>	定格電圧(Vdc) Rated Voltage	6.3	10	16	25	35	50	(20°C, 120Hz)	tan δ	0.26	0.19	0.16	0.14	0.12	0.10																	
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耐久性 Endurance	<p>105°C, 2000時間定格電圧印加後、下記項目を満足すること。 After applying rated voltage 2000 hours at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>静電容量変化率 Capacitance Change</td> <td>初期値の ±30% 以内 Within ±30% of the initial value.</td> </tr> <tr> <td>損失角の正接 Dissipation Factor</td> <td>規格値の 200% 以下 Not more than 200% of the specified value.</td> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</td> </tr> </table>	静電容量変化率 Capacitance Change	初期値の ±30% 以内 Within ±30% of the initial value.	損失角の正接 Dissipation Factor	規格値の 200% 以下 Not more than 200% of the specified value.	漏れ電流 Leakage Current	規格値以下 Not more than the specified value.																										
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低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX)	<table border="1"> <tr> <td>定格電圧(Vdc) Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> <tr> <td>Z(-55°C)/Z(20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </table>	定格電圧(Vdc) Rated Voltage	6.3	10	16	25	35	50	(120Hz)	Z(-25°C)/Z(20°C)	2	2	2	2	2	2		Z(-40°C)/Z(20°C)	3	3	3	3	3	3		Z(-55°C)/Z(20°C)	4	4	4	3	3	3	
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Z(-55°C)/Z(20°C)	4	4	4	3	3	3																											

◆呼称方法/PART NUMBER

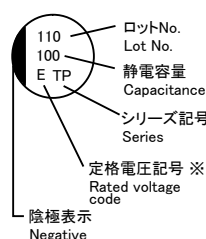


◆リップル電流補正係数/  
MULTIPLIER FOR RIPPLE CURRENT

周波数 (Hz) Frequency		120	1k	10k	100k ≤
係数 Coefficient	47~150 μF	0.44	0.80	0.95	1.00
	220~2200 μF	0.60	0.85	0.95	1.00

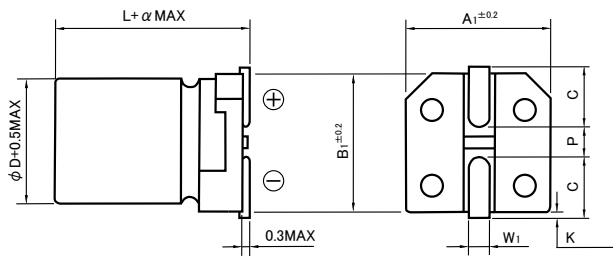
◆表示/MARKING

※電圧記号 Voltage code



定格電圧 (Vdc) Rated Voltage	6.3	10	16	25	35	50
電圧記号 Voltage code	j	A	C	E	V	H

◆寸法図／DIMENSIONS



$\phi D$	L	A1	B1	C	W1	P	K	$\alpha$
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8	0.5MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5MAX	0
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5MAX	0

◆標準品一覧表／STANDARD SIZE

Size  $\phi D \times L(\text{mm})$ , Rated Ripple Current (mA r.m.s./105°C, 100kHz), ESR( $\Omega \text{ MAX}/20^\circ\text{C}, 100\text{kHz}$ )

Vdc	Cap ( $\mu\text{F}$ )	Size ( $\phi D \times L$ )	Ripple	ESR
6.3	330	6.3x6.1	300	0.26
	470	6.3x8	600	0.16
	680	6.3x8	600	0.16
	1200	8x10.5	850	0.08
	2200	10x10.5	1190	0.06
10	220	6.3x6.1	300	0.26
	330	6.3x8	600	0.16
	470	6.3x8	600	0.16
	1000	8x10.5	850	0.08
	1500	10x10.5	1190	0.06
16	150	6.3x6.1	300	0.26
	220	6.3x6.1	300	0.26
	330	6.3x8	600	0.16
	680	8x10.5	850	0.08
	1000	10x10.5	1190	0.06
25	100	6.3x6.1	300	0.26
	150	6.3x8	600	0.16
	220	6.3x8	600	0.16
	470	8x10.5	850	0.08
	560	8x10.5	850	0.08
	820	10x10.5	1190	0.06
	1000	10x10.5	1190	0.06

Vdc	Cap ( $\mu\text{F}$ )	Size ( $\phi D \times L$ )	Ripple	ESR
35	68	6.3x6.1	300	0.26
	100	6.3x6.1	300	0.26
	150	6.3x8	600	0.16
	330	8x10.5	850	0.08
	470	8x10.5	850	0.08
	560	10x10.5	1190	0.06
	680	10x10.5	1190	0.06
50	47	6.3x6.1	195	0.68
	100	6.3x8	350	0.34
	220	8x10.5	670	0.18
	330	10x10.5	900	0.12