

TZV series

105°C 2000時間 低インピーダンス品
Load life : 105°C 2000 hours, Low Impedance

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℃																												
定格電圧範囲 Rated Voltage Range	6.3～50Vdc																												
静電容量許容差 Capacitance Tolerance	±20% (20℃, 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 3μA 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><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></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></tr></table> (20℃, 120Hz)	定格電圧 (Vdc) Rated Voltage	6.3	10	16	25	35	50	tan δ	0.26	0.19	0.16	0.14	0.12	0.10														
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耐久性 Endurance	105℃中で2000時間定格電圧(リップル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for 2000 hours at 105℃, the capacitors shall meet the following requirements. <table><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><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></tr><tr><td>Z (-25℃) / Z (20℃)</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z (-40℃) / Z (20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr><tr><td>Z (-55℃) / Z (20℃)</td><td>4</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)	定格電圧 (Vdc) Rated Voltage	6.3	10	16	25	35	50	Z (-25℃) / Z (20℃)	2	2	2	2	2	2	Z (-40℃) / Z (20℃)	3	3	3	3	3	3	Z (-55℃) / Z (20℃)	4	4	4	3	3	3
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Z (-55℃) / Z (20℃)	4	4	4	3	3	3																							

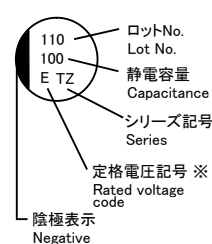
◆呼称方法／PART NUMBER

□□□	TZV	□□□□□	M	□□□	D x L
定格電圧 Rated Voltage	シリーズ名 Series	静電容量 Capacitance	静電容量許容差 Capacitance Tolerance	副記号 Option	ケースサイズ Case Size

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

周波数 (Hz) Frequency	120	1k	10k	100k≤
4.7 μF	0.30	0.60	0.80	1.00
10~47 μF	0.32	0.75	0.90	1.00
100 μF	0.50	0.80	0.95	1.00
220~1000 μF	0.60	0.85	0.95	1.00

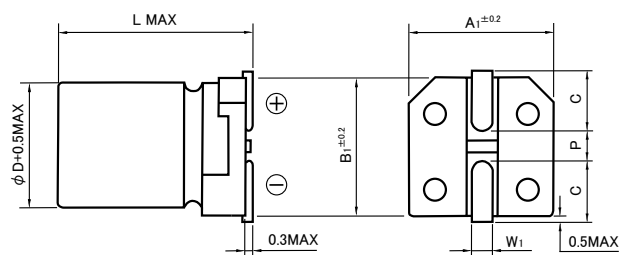
◆表示／MARKING



※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



(mm)

φ D	L	A1	B1	C	W1	P
4	6.1	4.3	4.3	1.8	0.5~0.8	1.0
5	6.1	5.3	5.3	2.2	0.5~0.8	1.3
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5

◆標準品一覧表／STANDARD SIZE

Size φ D × L (mm), Rated Ripple Current (mA r.m.s./105°C, 100kHz), Impedance (Ω MAX/20°C, 100kHz)

Vdc	Cap (μF)	Size (φ D × L)	Ripple	Impedance
6.3	22	4×6.1	90	1.35
	47	4×6.1	90	1.35
		5×6.1	170	0.70
	100	5×6.1	170	0.70
		6.3×6.1	250	0.36
	220	6.3×6.1	250	0.36
		6.3×8	300	0.34
	330	6.3×8	300	0.34
10	1000	8×10.5	600	0.16
	33	4×6.1	90	1.35
	220	6.3×8	300	0.34
	470	8×10.5	600	0.16
	680	8×10.5	600	0.16
16	1000	10×10.5	850	0.08
	10	4×6.1	90	1.35
	22	4×6.1	90	1.35
		5×6.1	170	0.70
	33	5×6.1	170	0.70
	47	5×6.1	170	0.70
		6.3×6.1	250	0.36
	100	6.3×6.1	250	0.36
		6.3×8	300	0.34
	220	6.3×8	300	0.34
	330	8×10.5	600	0.16
	470	8×10.5	600	0.16
	680	10×10.5	850	0.08

Vdc	Cap (μF)	Size (φ D × L)	Ripple	Impedance
25	33	5×6.1	170	0.70
		6.3×6.1	250	0.36
	47	6.3×6.1	250	0.36
	100	6.3×8	300	0.34
	220	8×10.5	600	0.16
	330	8×10.5	600	0.16
	470	10×10.5	850	0.09
35	4.7	4×6.1	90	1.45
	10	4×6.1	90	1.45
		5×6.1	170	0.70
	22	5×6.1	170	0.70
		6.3×6.1	250	0.36
	33	6.3×6.1	250	0.36
	47	6.3×6.1	250	0.36
		6.3×8	300	0.34
	100	6.3×8	300	0.34
		8×10.5	600	0.16
	220	8×10.5	600	0.16
	330	10×10.5	850	0.09
50	4.7	4×6.1	60	2.90
	10	5×6.1	85	1.52
		6.3×6.1	165	0.88
	22	6.3×6.1	165	0.88
	33	6.3×8	195	0.68
	47	6.3×8	195	0.68
	100	8×10.5	350	0.34
	220	10×10.5	670	0.18