

TZV SERIES

105°C Low Impedance, Lead Free Reflow Soldering.

◆ **FEATURES**

- Load Life : 105°C 2000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- Prescribe Impedance value at 100 kHz.
- RoHS compliance.



◆ **SPECIFICATIONS**

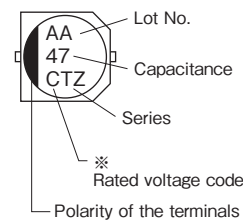
Items	Characteristics					
Category Temperature Range	-55~+105°C					
Rated Voltage Range	6.3~50V.DC					
Capacitance Tolerance	±20% (20°C, 120Hz)					
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V)					
(tanδ) Dissipation Factor(MAX)	Rated Voltage (V)	6.3	10	16	25	35 50
	tanδ	0.26	0.19	0.16	0.14	0.12 0.10
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements.					
	Capacitance Change	Within ±30% of the initial value.				
	Dissipation Factor	Not more than 200% of the specified value.				
	Leakage Current	Not more than the specified value.				
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (V)	6.3	10	16	25	35 50
	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

◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency Coefficient

Frequency (Hz)	120	1k	10k	100k≤
4.7μF	0.42	0.60	0.80	1.00
10~33μF	0.45	0.75	0.90	1.00
47~100μF	0.50	0.80	0.95	1.00
220~1000μF	0.60	0.85	0.95	1.00

◆ **MARKING**



※ Voltage Code

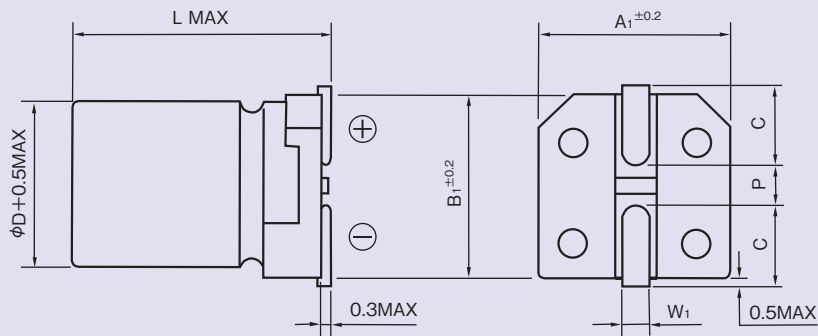
Rated Voltage (V)	6.3	10	16	25	35	50
Rated Voltage code	j	A	C	E	V	H

◆ **PART NUMBER**

□□□ TZV □□□□□ M □□□ D×L
 Rated Voltage Series Capacitance Capacitance Tolerance Option Case Size

◆DIMENSIONS

(mm)



φD	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

◆STANDARD SIZE

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

Cap(μF) WV (V.DC)	6.3 (0J)			10 (1A)			16 (1C)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
10							4×6.1	90	1.35
22	4×6.1	90	1.35				4×6.1	90	1.35
							5×6.1	170	0.70
33				4×6.1	90	1.35	5×6.1	170	0.70
47	4×6.1	90	1.35				5×6.1	170	0.70
	5×6.1	170	0.70				6.3×6.1	250	0.36
100	5×6.1	170	0.70				6.3×6.1	250	0.36
	6.3×6.1	250	0.36				6.3×8	300	0.34
220	6.3×6.1	250	0.36	6.3×8	300	0.34	6.3×8	300	0.34
	6.3×8	300	0.34						
330	6.3×8	300	0.34				8×10.5	600	0.16
470				8×10.5	600	0.16	8×10.5	600	0.16
680				8×10.5	600	0.16	10×10.5	850	0.08
1000	8×10.5	600	0.16	10×10.5	850	0.08			

Cap(μF) WV (V.DC)	25 (1E)			35 (1V)			50 (1H)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
4.7				4×6.1	90	1.45	4×6.1	60	2.90
10				4×6.1	90	1.45	5×6.1	85	1.52
				5×6.1	170	0.70	6.3×6.1	165	0.88
22				5×6.1	170	0.70	6.3×6.1	165	0.88
				6.3×6.1	250	0.36			
33	5×6.1	170	0.70	6.3×6.1	250	0.36	6.3×8	195	0.68
	6.3×6.1	250	0.36						
47	6.3×6.1	250	0.36	6.3×6.1	250	0.36	6.3×8	195	0.68
				6.3×8	300	0.34			
100	6.3×8	300	0.34	6.3×8	300	0.34	8×10.5	350	0.34
				8×10.5	600	0.16			
220	8×10.5	600	0.16	8×10.5	600	0.16	10×10.5	670	0.18
330	8×10.5	600	0.16	10×10.5	850	0.09			
470	10×10.5	850	0.09						