



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.
- Low impedance at 100kHz with selected materials.
- RoHS compliance.



SPECIFICATIONS

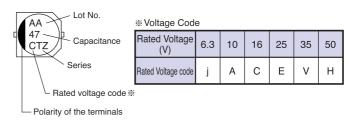
Items	Characteristics							
Category Temperature Range	-55~+105°C							
Rated Voltage Range	6.3~50V.DC							
Capacitance Tolerance	±20%(20°C,120Hz)							
Leakage Current(MAX)	I=0.01CV or 3 μ A whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)							
Dissipation Factor(MAX) $(an\delta)$	Rated Voltage (CV) 6.3 10 16 25 35 50 (20°C,120Hz) tanδ 0.26 0.19 0.16 0.14 0.12 0.10							
	After applying rated voltage with rated ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements.							
	Capacitance Change Within ±30% of the initial value.							
Endurance	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 6.3 10 16 25 35 50 (120Hz)							
	(V) 0.3 10 10 23 33 30 (1.231.12) Z(-25°C)/Z(20°C) 2 2 2 2 2 2							
	Z(-40°C)/Z(20°C) 3 3 3 3 3 3 3							
	Z(—55°C)/Z(20°C) 4 4 4 3 3 3							

♦MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

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

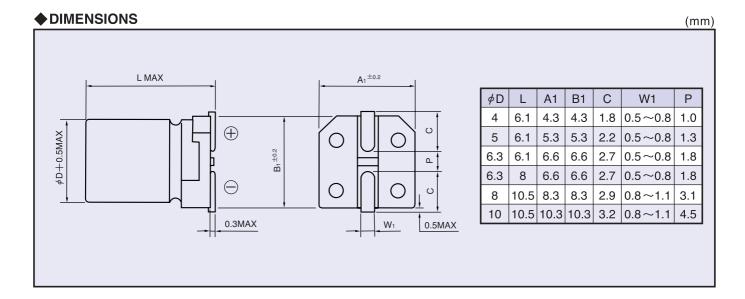
◆ MARKING



◆PART NUMBER

Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Case Size





♦ STANDARD SIZE

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

WV (V.DC)	6.3 (0J)			10 (1A)			16 (1C)		
Cap(µF)	Size	Ripple	Z	Size	Ripple	Z	Size	Ripple	Z
10			 			! !	4×6.1	90	1.35
00	4×6.1	90	1.35				4×6.1	90	1.35
22	4 ^ 0.1					1 1 1	5×6.1	170	0.70
33			1 1 1	4×6.1	90	1.35	5×6.1	170	0.70
47	4×6.1	90	1.35			1 1 1	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			1 1 1	6.3×6.1	250	0.36
100	6.3×6.1	250	0.36			1 1 1	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			

WV (V.DC)	25 (1E)			35 (1V)			50 (1V)		
Cap(µF)	Size	Ripple	Z	Size	Ripple	Z	Size	Ripple	Z
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
22				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	0.3 \ 0.1	230	0.30			
47	6.3×6.1	250	0.36	6.3 ×6.1	250	0.36	6.3×8	195	0.68
47				6.3×8	300	0.34			0.00
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						