


CAHA SERIES: Surface Mount | SMD E-CAP Low ESR(Impedance)
**FEATURES**

- ◆ 105°C, 2000 hours assured
- ◆ Low Impedance
- ◆ RoHS Compliant

SPECIFICATIONS

Item		Performance							
Operating Temp. Range		-55°C ~ +105°C							
Capacitance Tolerance		± 20% (120Hz, 20°C)							
Leakage Current (at 20°C)		I=0.01CV or 3μA (whichever is greater) after 2 minutes, where C=rated capacitance in μF V=rated DC working Volts							
Dissipation Factor	Rated Voltage	6.3	10	16	25	35			
Tanδ at 120 Hz, 20°C	Tanδ (max)	0.30	0.26	0.22	0.16	0.13			
Low Temperature Characteristics (at 120Hz)	Rated Voltage		6.3	10	16	25	35		
	Impedance Ratio	Z(-25°C) /Z(+20°C)		4	3	2	2	2	
		Z(-40°C) /Z(+20°C)		8	5	4	3	3	
Life Test	Test Time		Load Life						Shelf Life
			2000 Hrs				1000 Hrs		
	Capacitance Change		Within ±20% of initial value				Within ± 20% of initial value		
	Dissipation Factor		Less than 200% of specified value				Less than 200% of specified value		
	Leakage Current		Within specified value				Within specified value		
	Test Conditions		20°C (after rated voltage applied for 2000 hours at 105°C				20° C (after storage for 1000 hours at 105°C without voltage)		
Ripple Current & Frequency Multipliers	VDC(V)	Freq. (Hz)	50,60	120	1K	10Kup			
	6.3 ~ 35		0.64	0.8	0.93	1.0			
Standards	Satisfies Characteristic W of JIS C 5141								

DIMENSION, IMPEDANCE & PERMISSIBLE RIPPLE CURRENT

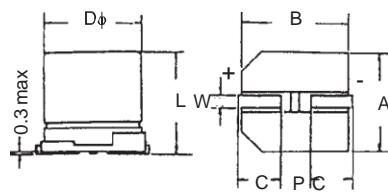
Ripple Current mA/rms at 120 Hz, 105°C

Impedance : at 100K Hz, 20°C

μF	VDC Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)			
		φD	x L	Imp. mA	φD	x L	Imp. mA	φD	x L	Imp. mA	φD	x L	Imp. mA
47	476										8 x 10	0.45	369
100	107										10 x 10	0.25	553
150	157										8 x 10	0.45	369
220	227				8 x 10	0.45	369				10 x 10	0.25	553
											8 x 10	0.45	369
330	337	8 x 10	0.45	369			553	10 x 10	0.25	553			
								8 x 10	0.45	369			
470	477	8 x 10	0.45	369	10 x 10	0.25	553	8 x 10	0.45	369			
					8 x 10	0.45	369						
820	827				10 x 10	0.25	553						
1000	108	10 x 10	0.25	553									

PAD SPACING AND DIAMETER

φD±0.5	L	A±0.2	B±0.2	C±0.2	W	P±0.2
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

**PART NUMBER EXAMPLE**

CAHA 476 M 1V T 080100