

CAYCA Upgrade!



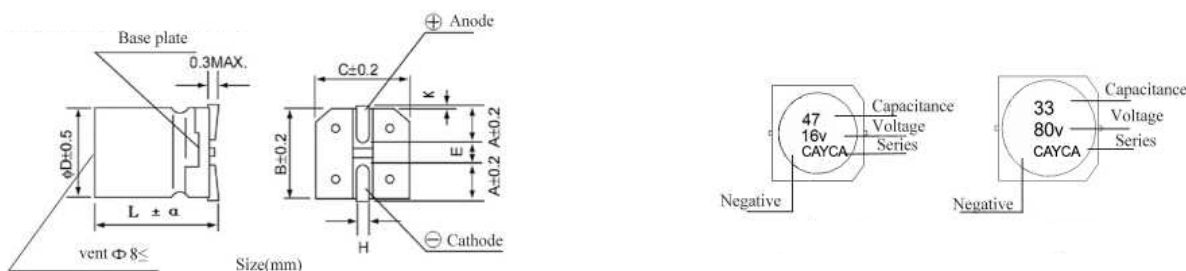
- ◆ Low ESR, High Ripple Current High Reliability
- ◆ 125°C 4000 Hours
- ◆ SMD Type : High Temperature Reflow-Soldering

■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+125°C	
Rated Voltage	6.3~100V	
Capacitance Range	8.2~10000μF 120Hz/20°C	
Capacitance Tolerance	±20%(120Hz/20°C)	
Dissipation Factor	Less than standard data 120Hz/20°C	
Leakage Current	Less than standard data charging 2mins with rated voltage, 20°C	
ESR	Less than standard data 100KHz/20°C	
Temperature Characteristics	Z (-25°C)/Z (+20°C)2.0 ; Z (-55°C)/Z (+20°C)2.5 (100KHz)	
Endurance	After load rated voltage with rated ripple current for 4000hours at 125°C, the following specification shall be satisfied after placing capacitor for 16 hours at 20°C	
	Capacitance change	Within±30% of the initial value
	ESR	Not more than 200% of the specified value
	Dissipation Factor	Not more than 200% of the specified value
	Leakage current	Not more than the specified value
ShelfLife	After leaving capacitors under no load at 125°C for 1000 hours, then test at 20°C±2°C after 16 hours, the following specification should be met:	
	Capacitance change	Within±30% of the initial value
	ESR	Not more than 300% of the specified value
	Dissipation Factor	Not more than 300% of the specified value
	Leakage current	Not more than the specified value
Humidity	Store the capacitor at 85°C under the condition of 85%R.H with no load for 1000hrs, the following specifications shall be satisfied after placing capacitor for 16 hours at 20°C.	
	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

If you have question for leakage current, please apply rated voltage on capacitors at 105°C for 2hours, then test the leakage current again at 20°C.

■ Standard Size



D	B	C	A	H	E	K	
5	5.3	5.3	2.1	0.65±0.10	1.3	0.5MAX	±0.3
6.3	6.6	6.6	2.6	0.90±0.20	1.8	0.5MAX	
8	8.3	8.3	3.4	0.90±0.20	3.1	0.5MAX	
10.55	10.3	10.3	3.5	0.90±0.20	4.6	0.7±0.20	±0.5

■ Rated Ripple Current Frequency Correction Factor

Frequency (Hz)	120Hz	1KHz	10KHz	100KHz	300KHz
Correction factor	0.10	0.45	0.50	1.00	1.00

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■ **Standard Size** Ripple current (mA/r.m.s) 125°C100kHz、ESR(m 100kHz)

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	Tanδ 120Hz	ESR	Ripple current	Part number
16(18.4)	47	5×5.8	0.16	80	550	CAYCA476M1CT050058
16(18.4)	82	6.3×5.8	0.16	45	950	CAYCA826M1CT063058
16(18.4)	150	6.3×7.7	0.16	27	1450	CAYCA157M1CT063077
16(18.4)	270	8×10.5	0.16	22	1700	CAYCA277M1CT080105
16(18.4)	470	10×10.5	0.16	18	2100	CAYCA477M1CT100105
25(28.8)	33	5×5.8	0.14	80	550	CAYCA336M1ET050058
25(28.8)	47	6.3×5.8	0.14	50	900	CAYCA476M1ET063058
25(28.8)	56	6.3×5.8	0.14	50	900	CAYCA566M1ET063058
25(28.8)	68	6.3×7.7	0.14	30	1400	CAYCA686M1ET063077
25(28.8)	100	6.3×7.7	0.14	30	1400	CAYCA107M1ET063077
25(28.8)	150	8×10.5	0.14	27	1600	CAYCA157M1ET080105
25(28.8)	220	8×10.5	0.14	27	1800	CAYCA227M1ET080105
25(28.8)	270	10×10.5	0.14	20	2000	CAYCA277M1ET100105
25(28.8)	330	10×12.5	0.14	16	2300	CAYCA337M1ET100125
25(28.8)	330	10×10.5	0.14	20	2000	CAYCA337M1ET100105
35(41)	22	5×5.8	0.12	100	550	CAYCA226M1VT050058
35(41)	27	6.3×5.8	0.12	60	900	CAYCA276M1VT063058
35(41)	47	6.3×5.8	0.12	60	900	CAYCA476M1VT063058
35(41)	47	6.3×7.7	0.12	35	1400	CAYCA476M1VT063077
35(41)	68	6.3×7.7	0.12	35	1400	CAYCA686M1VT063077
35(41)	100	8×10.5	0.12	27	1600	CAYCA107M1VT080105
35(41)	150	8×10.5	0.12	27	1600	CAYCA157M1VT080105
35(41)	150	10×10.5	0.12	20	2000	CAYCA157M1VT100105
35(41)	270	10×12.5	0.12	17	2200	CAYCA277M1VT100125
35(41)	270	10×10.5	0.12	20	2000	CAYCA277M1VT100105
50(58)	10	5×5.8	0.10	120	550	CAYCA106M1HT050058
50(58)	10	6.3×5.8	0.10	80	750	CAYCA106M1HT063058
50(58)	15	6.3×7.7	0.10	40	1100	CAYCA156M1HT063077
50(58)	22	6.3×5.8	0.10	80	750	CAYCA226M1HT063058
50(58)	33	6.3×7.7	0.10	40	1100	CAYCA336M1HT063077
50(58)	33	8×10.5	0.10	30	1250	CAYCA336M1HT080105
50(58)	47	8×10.5	0.10	30	1250	CAYCA476M1HT080105
50(58)	56	10×10.5	0.10	25	1600	CAYCA566M1HT100105
50(58)	68	8×10.5	0.10	30	1250	CAYCA686M1HT080105
50(58)	100	10×10.5	0.10	25	1600	CAYCA106M1HT100105
50(58)	120	10×12.5	0.10	19	2100	CAYCA126M1HT100125
50(58)	120	10×10.5	0.10	25	1600	CAYCA126M1HT100105
63(73)	6.8	6.3×5.8	0.10	120	700	CAYCA685M1JT063058
63(73)	10	6.3×5.8	0.10	120	700	CAYCA106M1JT063058
63(73)	10	6.3×7.7	0.10	80	900	CAYCA106M1JT063077
63(73)	22	6.3×7.7	0.10	80	900	CAYCA226M1JT063077
63(73)	22	8×10.5	0.10	40	1100	CAYCA226M1JT080105
63(73)	33	8×10.5	0.10	40	1100	CAYCA336M1JT080105

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■ **Standard Size** Ripple current (mA/r.m.s) 125°C100kHz、ESR(m 100kHz)

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	Tanδ 120Hz	ESR	Ripple current	Part number
63(73)	33	10×10.5	0.10	30	1400	CAYCA336M1JT100105
63(73)	47	8×10.5	0.10	40	1100	CAYCA476M1JT080105
63(73)	56	10×10.5	0.10	30	1400	CAYCA566M1JT100105
63(73)	82	10×10.5	0.10	30	1400	CAYCA826M1JT100105
63(73)	100	10×12.5	0.10	20	2000	CAYCA107M1JT100125
80(92)	22	8×10.5	0.10	45	1100	CAYCA226M1JT080105
80(92)	33	10×10.5	0.10	36	1200	CAYCA336M1JT100105
80(92)	39	10×10.5	0.10	35	1200	CAYCA396M1JT100105

PART NUMBER EXAMPLE

