

CAYCD Upgrade!



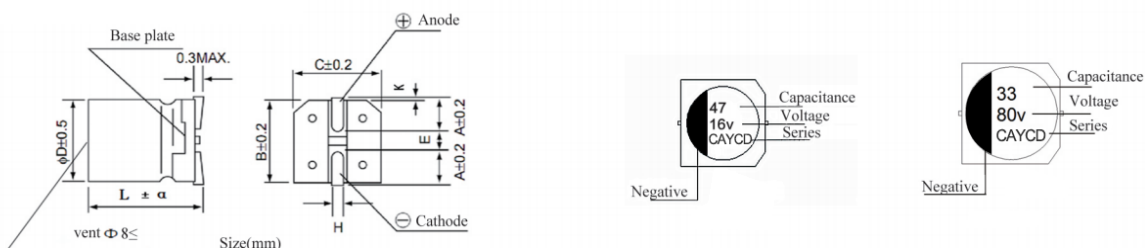
- ◆ 105°C 10000 Hours
- ◆ Low ESR, High Ripple Current, High Reliability
- ◆ SMD Type : High Temperature Reflow-Soldering
- ◆ AEC-Q200, RoHS Compliant (2011/65/EU)

■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+105°C	
Rated Voltage	16~80V	
Capacitance Range	6.8~470μF 120Hz/20°C	
Capacitance Tolerance	±20%(120Hz/20°C)	
Dissipation Factor	Less than standard data 120Hz/20°C	
Leakage Current	I 0.01CV, charging 2 mins 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 applying the rated voltage with rated ripple current at 105°C for 10000 hours, the following specifications shall be satisfied after 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	Store the capacitor at 60°C under the condition of 90%~95%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
	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
Humidity	Store the capacitor at 60°C under the condition of 90%~95%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	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	0.35	0.80	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	900	CAYCD476M1CT050058
16(18.4)	82	6.3×5.8	0.16	45	1600	CAYCD826M1CT063058
16(18.4)	150	6.3×7.7	0.16	27	2200	CAYCD157M1CT063077
16(18.4)	270	8×10.5	0.16	22	2500	CAYCD277M1CT080105
16(18.4)	470	10×10.5	0.16	18	2600	CAYCD477M1CT100105
25(28.8)	33	5×5.8	0.14	80	900	CAYCD336M1ET050058
25(28.8)	47	6.3×5.8	0.14	50	1300	CAYCD476M1ET063058
25(28.8)	56	6.3×5.8	0.14	50	1300	CAYCD566M1ET063058
25(28.8)	68	6.3×7.7	0.14	30	2000	CAYCD686M1ET063077
25(28.8)	100	6.3×7.7	0.14	30	2000	CAYCD107M1ET063077
25(28.8)	150	8×10.5	0.14	27	2300	CAYCD157M1ET080105
25(28.8)	220	8×10.5	0.14	27	2300	CAYCD227M1ET080105
25(28.8)	270	10×10.5	0.14	20	2500	CAYCD277M1ET100105
25(28.8)	330	10×12.5	0.14	20	2500	CAYCD337M1ET100105
25(28.8)	330	10×10.5	0.14	16	3100	CAYCD337M1ET100125
35(41)	22	5×5.8	0.12	100	900	CAYCD226M1VT050058
35(41)	27	6.3×5.8	0.12	60	1300	CAYCD276M1VT063058
35(41)	47	6.3×5.8	0.12	60	1300	CAYCD476M1VT063058
35(41)	47	6.3×7.7	0.12	35	2000	CAYCD476M1VT063077
35(41)	68	6.3×7.7	0.12	35	2000	CAYCD686M1VT063077
35(41)	100	8×10.5	0.12	27	2300	CAYCD107M1VT080105
35(41)	150	8×10.5	0.12	27	2300	CAYCD157M1VT080105
35(41)	150	10×10.5	0.12	20	2500	CAYCD157M1VT100105
35(41)	270	10×10.5	0.12	20	2500	CAYCD277M1VT100105
35(41)	270	10×12.5	0.12	17	3000	CAYCD227M1VT100125
50(58)	10	5×5.8	0.10	120	750	CAYCD106M1HT050058
50(58)	10	6.3×5.8	0.10	80	1100	CAYCD106M1HT063058
50(58)	15	6.3×5.8	0.10	80	1100	CAYCD156M1HT063058
50(58)	22	6.3×5.8	0.10	80	1100	CAYCD226M1HT063058
50(58)	33	6.3×7.7	0.10	40	1400	CAYCD336M1HT063077
50(58)	33	8×10.5	0.10	30	1800	CAYCD336M1HT080105
50(58)	47	8×10.5	0.10	30	1800	CAYCD476M1HT080105
50(58)	56	8×10.5	0.10	30	1800	CAYCD566M1HT080105
50(58)	68	8×10.5	0.10	30	1800	CAYCD686M1HT080105
50(58)	100	10×10.5	0.10	28	2000	CAYCD107M1HT100105
50(58)	120	10×10.5	0.10	25	2000	CAYCD127M1HT100105
50(58)	120	10×12.5	0.10	19	2800	CAYCD127M1HT100125
63(73)	6.8	6.3×5.8	0.08	120	1000	CAYCD685M1JT063058
63(73)	10	6.3×5.8	0.08	120	1000	CAYCD106M1JT063058
63(73)	10	6.3×7.7	0.08	80	1500	CAYCD106M1JT063077
63(73)	15	6.3×7.7	0.08	80	1500	CAYCD156M1JT063077
63(73)	22	6.3×7.7	0.08	80	1500	CAYCD226M1JT063077
63(73)	22	8×10.5	0.08	40	1600	CAYCD226M1JT080105

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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	8×10.5	0.08	40	1700	CAYCD336M1JT080105
63(73)	47	8×10.5	0.08	40	1600	CAYCD476M1JT080105
63(73)	56	10×10.5	0.08	30	1800	CAYCD566M1JT100105
63(73)	68	10×10.5	0.08	30	1800	CAYCD686M1JT100105
63(73)	82	10×10.5	0.08	30	1800	CAYCD826M1JT100105
63(73)	100	10×12.5	0.08	20	2600	CAYCD107M1JT100125
80(92)	22	8×10.5	0.08	45	1500	CAYCD226M1KT080105
80(92)	33	10×10.5	0.08	36	1700	CAYCD336M1KT100105
80(92)	39	10×10.5	0.08	35	1700	CAYCD396M1KT100105

PART NUMBER EXAMPLE

