

# CAYH Upgrade!

- ◆ 105°C 2000 Hours
- ◆ Flat Type (Height 1.0mm)
- ◆ High Voltage ( 50Vmax )
- ◆ RoHS Compliant (2011/65/EU)



## ■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+105°C	
Rated Voltage	2~50V	
Capacitance Range	5.6~220μF 120Hz/20°C	
Capacitance Tolerance	±20%(120Hz/20°C)	
Dissipation Factor	Below the standard value ( under frequency 120Hz/20°C )	
Leakage Current	I<0.1CV under 20°C charging 2mins with rated voltage	
ESR	Below the standard value ( under frequency 100KHz/20°C )	
Surge Voltage (V)	1.15times than rated voltage	
Endurance	After load rated voltage for 2000hours at 105°C, the following specification shall be satisfied after placing capacitor for 16 hours at 20°C	
	Capacitance change	Within±20% of the initial value
	Dissipation Factor	200%or less than 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	-20%+50%of the initial value
	Dissipation Factor	200%or less than the initial specified value
	Leakage current	Within the initial value

## ■ Marks

Capacitance(μF) Positive

Rated Voltage (V) Manufacturing code

Manufacturing Code Standard :

The 1st letter:Producing Month

Month	1	2	3	4	5	6	7	8	9	10	11	12
Code	A	B	C	D	E	F	G	H	J	K	L	M

Two number in the middle:Year  
The last letter:last letter in its series

## ■ Dimension

Unit:mm

L±0.2	W±0.2	H±0.1	W1±0.1	P±0.2
7.3	4.3	1.0	2.4	1.3

## ■ Rated Ripple Current Temperature Correction Factor

Frequency (Hz)	T 45°C	45°C<T 85°C	85°C<T 105°C
Correction factor	1.0	0.7	0.25

The surface temperature of MLPC should be less than its Max.operating temperature.

## ■ Rated Ripple Current Frequency Correction Factor

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

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## ■ Standard Size ESR(m 100kHz) Ripple current (mA/r.m.s) 45°C100kHz

Rated Voltage (V)	Capacitance ( $\mu$ F)	Size D×L(mm)			L.C ( $\mu$ A,2 min)	Tan $\delta$ 120Hz	ESR	Ripple current	Part number
		L	W	H					
2	82	7.3	4.3	1.0	16.4	0.06	15	5100	CAYH826M0DD10150T
	180	7.3	4.3	1.0	36	0.06	12	5600	CAYH187M0DD10120T
	220	7.3	4.3	1.0	44	0.06	9	6300	CAYH227M0DD10090T
2.5	68	7.3	4.3	1.0	17	0.06	15	5100	CAYH686M0ED10150T
	180	7.3	4.3	1.0	38	0.06	12	5600	CAYH187M0ED10120T
4	47	7.3	4.3	1.0	9.4	0.06	20	4200	CAYH476M0GD10200T
	100	7.3	4.3	1.0	40	0.06	12	5600	CAYH107M0GD10120T
	150	7.3	4.3	1.0	60	0.06	9	6300	CAYH157M0GD10090T
		7.3	4.3	1.0	60	0.06	7	7000	CAYH157M0GD10070T
6.3	33	7.3	4.3	1.0	21	0.06	20	4200	CAYH336M0JD10200T
	68	7.3	4.3	1.0	43	0.06	15	5100	CAYH686M0JD10150T
	100	7.3	4.3	1.0	63	0.06	12	5600	CAYH107M0JD10120T
10	18	7.3	4.3	1.0	14	0.06	20	4200	CAYH186M1AD10200T
	39	7.3	4.3	1.0	39	0.06	18	4600	CAYH396M1AD10180T
	56	7.3	4.3	1.0	68	0.06	15	5100	CAYH566M1AD10150T
16	15	7.3	4.3	1.0	24	0.06	70	2400	CAYH156M1CD10700T
	33	7.3	4.3	1.0	53	0.06	50	2850	CAYH336M1CD10500T
	47	7.3	4.3	1.0	75	0.06	30	3500	CAYH476M1CD10300T
20	10	7.3	4.3	1.0	20	0.06	80	2200	CAYH106M1DD10800T
	22	7.3	4.3	1.0	44	0.06	65	2500	CAYH226M1DD10650T
	33	7.3	4.3	1.0	66	0.06	45	3000	CAYH336M1DD10450T
25	10	7.3	4.3	1.0	25	0.06	80	2200	CAYH106M1ED10800T
	22	7.3	4.3	1.0	55	0.06	65	2500	CAYH226M1ED10650T
	33	7.3	4.3	1.0	83	0.06	45	3000	CAYH336M1ED10450T
35	15	7.3	4.3	1.0	53	0.06	50	2850	CAYH156M1VD10500T
50	5.6	7.3	4.3	1.0	41	0.06	55	2700	CAYH565M1HD10550T