

# CAYG Upgrade!

- ◆ 105°C 2000 Hours
- ◆ High Voltage ( 50Vmax ) High Capacitance ( 820uF max )
- ◆ Low ESR And High Ripple Current
- ◆ RoHS Compliant (2011/65/EU)



## ■ Specification

Items	Characteristics	
<b>Operation Temperature Range</b>	-55°C~+105°C	
<b>Rated Voltage</b>	2~50V	
<b>Capacitance Range</b>	15~820μF 120Hz/20°C	
<b>Capacitance Tolerance</b>	±20%(120Hz/20°C)	
<b>Dissipation Factor</b>	Below the standard value ( under frequency 120Hz/20C )	
<b>Leakage Current</b>	I<0.1CV under 20C charging 2mins with rated voltage	
<b>ESR</b>	Below the standard value ( under frequency 100KHz/20C )	
<b>Surge Voltage (V)</b>	1.15times than rated voltage	
<b>Endurance</b>	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
<b>Humidity</b>	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	2.8	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
<b>Correction factor</b>	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
<b>Correction factor</b>	0.10	0.45	0.50	1.00

# CAYG Upgrade!

## ■ 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	560	7.3	4.3	2.8	112	0.06	6	7500	CAYG567M0DD060T
		7.3	4.3	2.8	112	0.06	4.5	8500	CAYG567M0DD045T
	680	7.3	4.3	2.8	136	0.06	6	7500	CAYG687M0DD060T
		7.3	4.3	2.8	136	0.06	4.5	8500	CAYG687M0DD045T
820	820	7.3	4.3	2.8	164	0.06	6	7500	CAYG827M0DD060T
		7.3	4.3	2.8	164	0.06	4.5	8500	CAYG827M0DD045T
2.5	470	7.3	4.3	2.8	118	0.06	6	7500	CAYG477M0ED060T
		7.3	4.3	2.8	118	0.06	4.5	8500	CAYG477M0ED045T
	560	7.3	4.3	2.8	140	0.06	6	7500	CAYG567M0ED060T
		7.3	4.3	2.8	140	0.06	4.5	8500	CAYG567M0ED045T
	680	7.3	4.3	2.8	170	0.06	6	7500	CAYG687M0ED060T
		7.3	4.3	2.8	170	0.06	4.5	8500	CAYG687M0ED045T
4	330	7.3	4.3	2.8	132	0.06	9	6300	CAYG337M0GD090T
	390	7.3	4.3	2.8	156	0.06	9	6300	CAYG397M0GD090T
	470	7.3	4.3	2.8	188	0.06	7	7000	CAYG477M0GD070T
6.3	270	7.3	4.3	2.8	170	0.06	9	6300	CAYG277M0JD090T
	330	7.3	4.3	2.8	208	0.06	7	7000	CAYG337M0JD070T
	390	7.3	4.3	2.8	246	0.06	7	7000	CAYG397M0JD070T
10	150	7.3	4.3	2.8	150	0.06	10	6800	CAYG157M1AD100T
	220	7.3	4.3	2.8	220	0.06	10	6800	CAYG227M1AD100T
16	120	7.3	4.3	2.8	192	0.06	20	5600	CAYG127M1CD200T
	150	7.3	4.3	2.8	240	0.06	15	5900	CAYG157M1CD150T
20	82	7.3	4.3	2.8	164	0.06	20	5600	CAYG826M1DD200T
	100	7.3	4.3	2.8	200	0.06	20	5600	CAYG107M1DD200T
25	82	7.3	4.3	2.8	205	0.06	25	3900	CAYG826M1ED250T
	100	7.3	4.3	2.8	250	0.06	25	3900	CAYG107M1ED250T
35	39	7.3	4.3	2.8	137	0.06	30	4300	CAYG396M1VD300T
	47	7.3	4.3	2.8	165	0.06	30	4300	CAYG476M1VD300T
50	15	7.3	4.3	2.8	53	0.06	45	3600	CAYG156M1HD450T