

CAYI Upgrade!

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



■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+105°C	
Rated Voltage	2~50V	
Capacitance Range	8.2~470μF 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	1.9	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 (μF)	Size D×L(mm)			L.C (μA,2 min)	Tanδ 120Hz	ESR	Ripple current	Part number
		L	W	H					
2	82	7.3	4.3	1.9	16.4	0.06	15	5100	CAYI826M0DD19150T
	180	7.3	4.3	1.9	36	0.06	12	5600	CAYI187M0DD19120T
	220	7.3	4.3	1.9	44	0.06	9	6300	CAYI227M0DD19090T
	270	7.3	4.3	1.9	54	0.06	9	6300	CAYI227M0DD19090T
	330	7.3	4.3	1.9	66	0.06	9	6300	CAYI337M0DD19090T
		7.3	4.3	1.9	66	0.06	6	7500	CAYI337M0DD19060T
		7.3	4.3	1.9	66	0.06	4.5	8500	CAYI337M0DD19045T
	390	7.3	4.3	1.9	78	0.06	9	6300	CAYI397M0DD19090T
		7.3	4.3	1.9	78	0.06	6	7500	CAYI397M0DD19060T
		7.3	4.3	1.9	78	0.06	4.5	8500	CAYI397M0DD19045T
	470	7.3	4.3	1.9	94	0.06	9	6300	CAYI477M0DD19090T
		7.3	4.3	1.9	94	0.06	6	7500	CAYI477M0DD19060T
7.3		4.3	1.9	94	0.06	4.5	8500	CAYI477M0DD19045T	
2.5	68	7.3	4.3	1.9	17	0.06	15	5100	CAYI686M0ED19150T
	150	7.3	4.3	1.9	38	0.06	12	5600	CAYI157M0ED19120T
2.5	220	7.3	4.3	1.9	55	0.06	9	6300	CAYI227M0ED19090T
	330	7.3	4.3	1.9	83	0.06	9	6300	CAYI337M0ED19090T
		7.3	4.3	1.9	83	0.06	6	7500	CAYI337M0ED19060T
		7.3	4.3	1.9	83	0.06	4.5	8500	CAYI337M0ED19045T
	390	7.3	4.3	1.9	98	0.06	9	6300	CAYI397M0ED19090T
		7.3	4.3	1.9	98	0.06	6	7500	CAYI397M0ED19060T
		7.3	4.3	1.9	98	0.06	4.5	8500	CAYI397M0ED19045T
4	47	7.3	4.3	1.9	18.8	0.06	20	4200	CAYI476M0GD19200T
	100	7.3	4.3	1.9	40	0.06	12	5600	CAYI107M0GD19120T
	150	7.3	4.3	1.9	60	0.06	9	6300	CAYI157M0GD19090T
		7.3	4.3	1.9	60	0.06	7	7000	CAYI157M0GD19070T
	220	7.3	4.3	1.9	88	0.06	9	6300	CAYI227M0GD19090T
		7.3	4.3	1.9	88	0.06	7	7000	CAYI227M0GD19070T
	270	7.3	4.3	1.9	108	0.06	9	6300	CAYI277M0GD19090T
		7.3	4.3	1.9	108	0.06	7	7000	CAYI277M0GD19070T
6.3	33	7.3	4.3	1.9	21	0.06	20	4200	CAYI336M0JD19200T
	68	7.3	4.3	1.9	43	0.06	15	5100	CAYI686M0JD19150T
	100	7.3	4.3	1.9	63	0.06	12	5600	CAYI107M0JD19120T
	150	7.3	4.3	1.9	95	0.06	9	6300	CAYI157M0JD19090T
	180	7.3	4.3	1.9	113	0.06	9	6300	CAYI187M0JD19090T
	220	7.3	4.3	1.9	139	0.06	9	6300	CAYI227M0JD19090T
10	22	7.3	4.3	1.9	22	0.06	20	4200	CAYI226M1AD19200T
	39	7.3	4.3	1.9	39	0.06	18	4600	CAYI396M1AD19180T
	68	7.3	4.3	1.9	68	0.06	15	5100	CAYI686M1AD19150T
	82	7.3	4.3	1.9	82	0.06	12	5600	CAYI826M1AD19120T
	100	7.3	4.3	1.9	100	0.06	10	5900	CAYI107M1AD19100T



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

Rated Voltage (V)	Capacitance (μF)	Size D×L(mm)			L.C (μA,2 min)	Tanδ 120Hz	ESR	Ripple current	Part number
		L	W	H					
16	15	7.3	4.3	1.9	24	0.06	70	2400	CAYI156M1CD19700T
	33	7.3	4.3	1.9	53	0.06	50	2850	CAYI336M1CD19500T
	47	7.3	4.3	1.9	75	0.06	40	3200	CAYI476M1CD19400T
	68	7.3	4.3	1.9	109	0.06	30	3500	CAYI686M1CD19300T
	82	7.3	4.3	1.9	131	0.06	25	3800	CAYI826M1CD19250T
	100	7.3	4.3	1.9	160	0.06	20	4200	CAYI107M1CD19200T
20	10	7.3	4.3	1.9	20	0.06	80	2200	CAYI106M1DD19800T
	22	7.3	4.3	1.9	44	0.06	65	2500	CAYI226M1DD19650T
	33	7.3	4.3	1.9	66	0.06	45	3000	CAYI336M1DD19450T
	47	7.3	4.3	1.9	94	0.06	35	3300	CAYI476M1DD19350T
	56	7.3	4.3	1.9	112	0.06	30	3500	CAYI566M1DD19300T
	68	7.3	4.3	1.9	136	0.06	25	3800	CAYI686M1DD19250T
25	10	7.3	4.3	1.9	25	0.06	80	2200	CAYI106M1ED19800T
	22	7.3	4.3	1.9	55	0.06	65	2500	CAYI226M1ED19650T
	33	7.3	4.3	1.9	83	0.06	45	3000	CAYI336M1ED19450T
	39	7.3	4.3	1.9	98	0.06	35	3300	CAYI396M1ED19350T
	47	7.3	4.3	1.9	117.5	0.06	30	3500	CAYI476M1ED19300T
	56	7.3	4.3	1.9	140	0.06	25	3800	CAYI566M1ED19250T
	68	7.3	4.3	1.9	170	0.06	20	4200	CAYI686M1ED19200T
35	15	7.3	4.3	1.9	53	0.06	60	2700	CAYI156M1VD19600T
	22	7.3	4.3	1.9	77	0.06	50	2850	CAYI226M1VD19500T
	33	7.3	4.3	1.9	115.5	0.06	30	3200	CAYI336M1VD19300T
50	8.2	7.3	4.3	1.9	41	0.06	55	2700	CAYI825M1HD19550T
	10	7.3	4.3	1.9	50	0.06	45	3000	CAYI106M1HD19450T