

MPD10

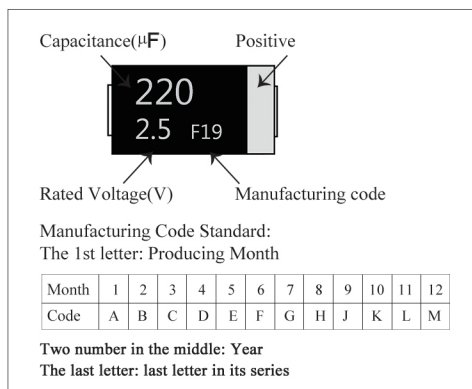
- ◆ 105°C 2000 Hours
- ◆ Flat Type (Height 1.0mm)
- ◆ High Voltage (50Vmax)
- ◆ RoHS Compliant (2011/65/EU)



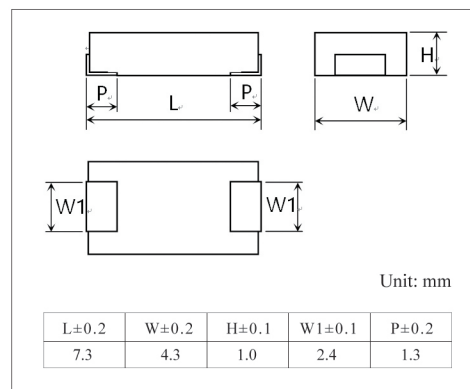
■ Specification

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



■ Dimension



■ 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

Rated Voltage (V)	Capacitance (μ F)	Size D×L(mm)			L.C. (μ A,2min)	Tan δ 120Hz	ESR (m Ω 100kHz)	Ripple current (mA/r.m.s) 45°C100kHz
		L	W	H				
2	82	7.3	4.3	1.0	16.4	0.06	15	5100
	180	7.3	4.3	1.0	36	0.06	12	5600
	220	7.3	4.3	1.0	44	0.06	9	6300
2.5	68	7.3	4.3	1.0	17	0.06	15	5100
	180	7.3	4.3	1.0	38	0.06	12	5600
4	47	7.3	4.3	1.0	9.4	0.06	20	4200
	100	7.3	4.3	1.0	40	0.06	12	5600
	150	7.3	4.3	1.0	60	0.06	9	6300
		7.3	4.3	1.0	60	0.06	7	7000
6.3	33	7.3	4.3	1.0	21	0.06	20	4200
	68	7.3	4.3	1.0	43	0.06	15	5100
	100	7.3	4.3	1.0	63	0.06	12	5600
10	18	7.3	4.3	1.0	14	0.06	20	4200
	39	7.3	4.3	1.0	39	0.06	18	4600
	56	7.3	4.3	1.0	68	0.06	15	5100
16	15	7.3	4.3	1.0	24	0.06	70	2400
	33	7.3	4.3	1.0	53	0.06	50	2850
	47	7.3	4.3	1.0	75	0.06	30	3500
20	10	7.3	4.3	1.0	20	0.06	80	2200
	22	7.3	4.3	1.0	44	0.06	65	2500
	33	7.3	4.3	1.0	66	0.06	45	3000
25	10	7.3	4.3	1.0	25	0.06	80	2200
	22	7.3	4.3	1.0	55	0.06	65	2500
	33	7.3	4.3	1.0	83	0.06	45	3000
35	15	7.3	4.3	1.0	53	0.06	50	2850
50	5.6	7.3	4.3	1.0	41	0.06	55	2700