

EPLC Series (Chip Standard)

Specifications

Table-1

Items	Conditions	Characteristics	
Category temperature range	-	-55°C to +105°C	
Tolerance on reted capacitance	120Hz	M: ±20%	
Tangent of less angle	120Hz	Less than or equal to the value of Table-4	
Leakage Current *1	After 2 minites	Less than or equal to the value of Table-4	
ESR	-	Less than or equal to the value of Table-4	
Characteristics of inpedance ratio at high temp. and low temp.	Based the value at 100KHz, +20°C	-55°C	Z/Z20°C 0.75 to 1.25
		+105°C	Z/Z20°C 0.75 to 1.25
Endurance	105°C, 2000h, Reted voltage applied	Δ C/C	Within ±20%
		Tan- δ	1.5times or less than an initial standerd
		ESR	1.5times or less than an initial standerd
		Leakage Current	Below an initial standerd (after voltage processing)
Damp heat (Steady state)	60°C,90 to 95%RH 1000h No applied voltage	Δ C/C	Within ±20%
		Tan- δ	1.5times or less than an initial standerd
		ESR	1.5times or less than an initial standerd
		Leakage Current	Below an initial standerd (after voltage processing)
Resistance to soldering heat	(VPS) (230°C×75s)	Δ C/C	Within ±20%
		Tan- δ	1.3times or less than an initial standerd
		ESR	1.3times or less than an initial standerd
		Leakage Current	Below an initial standerd (after voltage processing)

*1 In case of some problems for measured values, mesues after applying rated voltage for 120minites at 105°C

Dimensions

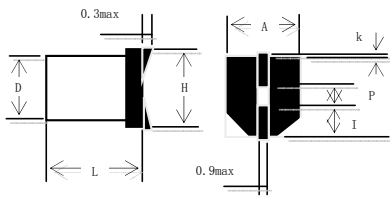


Table-2

Unit:(mm)

Size code	D±0.5	L+0.1/-0.2	A±0.2	Hmax	I	P	k±0.2
8×9	8.0	9.0	8.3	10.0	3.4	3.1	0.7
8×12		12.0					
10×9	10.0	9.0	10.3	12.0	3.5	4.6	
10×12		12.0					

Frequency coefficent for ripple current

Table-3

Frequency	120Hz ≤ f < 1KHz	1KHz ≤ f < 10KHz	10KHz ≤ f < 100KHz	100KHz ≤ f < 500KHz
Coefficient	0.05	0.3	0.7	1

Table-4 EPLC Serise Characteristics List

Size Code	Rated Voutage (V)	Rated Capacitance (μ JF)	ESR 100KHz to 300KHz (mΩ max)	Rated ripple current 100KHz/105°C(mA.rms)	Tangent of loss angle (max)	Leakage current (μ A) (max)*1
8×9	2.5	560	12	4500	0.12	280
	2.5	680	12	4500	0.12	340
	2.5	820	12	4500	0.12	410
	4	560	12	4500	0.12	448
	4	680	12	4500	0.12	544
	6.3	330	18	4100	0.12	416
	6.3	390	16	4200	0.12	491
	6.3	470	14	4300	0.12	592
	6.3	560	12	4500	0.12	706
	10	220	18	3200	0.12	440
8×12	10	270	16	3600	0.12	540
	16	100	28	3000	0.12	320
	2.5	1000	12	4500	0.12	500
	2.5	1200	12	4500	0.12	600
	4	820	12	4500	0.12	656
	4	1000	12	4500	0.12	800
	6.3	680	12	4500	0.12	857
	10	470	16	3800	0.12	940
16	150	25	3500	0.12	480	
	180	20	3800	0.12	576	

■Table-4 EPLC Serise Characteristics List

Size Code	Rated Voutage (V)	Rated Capacitance (μ JF)	ESR 100KHz to 300KHz ($m\Omega$ max)	Rated ripple current 100KHz/105°C(mA.rms)	Tangent of loss angle (max)	Leakage current (μ A) (max)*1
10×9	2.5	1500	10	5100	0.12	750
	4	1200	10	5100	0.12	960
	6.3	820	10	5100	0.12	1033
	6.3	1000	10	5100	0.12	1260
	10	680	12	4500	0.12	1360
10×12.5	2.5	1800	10	5100	0.12	900
	2.5	2200	10	5100	0.12	1100
	4	1500	10	5100	0.12	1200
	10	820	12	4500	0.12	1640
	16	270	20	4200	0.12	864
	16	330	18	4400	0.12	1056