

EPH Series (Radial High Voltage Standard)

■ **Specifications**

Table-1

Items	Conditions	Characteristics		
Category temperature range	-	-55°C to +105°C		
Tolerance on rated capacitance	120Hz	M: ±20%		
Tangent of loss angle	120Hz	Less than or equal to the value of Table-4		
Leakage Current *1	After 2 minutes	Less than or equal to the value of Table-4		
ESR	-	Less than or equal to the value of Table-4		
Characteristics of impedance 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, Rated voltage applied	Δ C/C	Within ±20%	
		Tan- δ	1.5times or less than an initial standard	
		ESR	1.5times or less than an initial standard	
		Leakage Current	Below an initial standard (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 standard	
		ESR	1.5times or less than an initial standard	
		Leakage Current	Below an initial standard (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 standard	
		ESR	1.3times or less than an initial standard	
		Leakage Current	Below an initial standard (after voltage processing)	

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

■ **Dimensions**

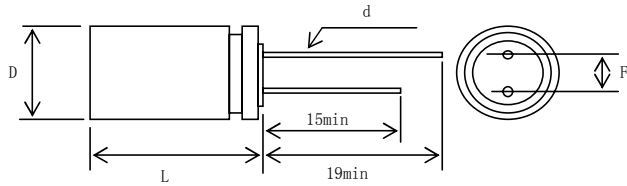


Table-2

Unit:(mm)

Size code	D±0.5	L±1.5	F±0.5	d±0.05
8×11.5	8	11.5	3.5	0.6
10×12.5	10	12.5	5.0	

■ **Frequency coefficient 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 EPH Series Characteristics List**

Size Code	Rated Voltage (V)	Rated Capacitance (μ F)	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
8×11.5	25	22	35	2000	0.08	110
	25	47	35	2500	0.08	235
	25	68	35	3200	0.08	340
10×12.5	20	100	35	3000	0.08	400
	20	120	35	3500	0.08	480
	20	150	20	4200	0.08	600
	25	82	20	4000	0.08	410