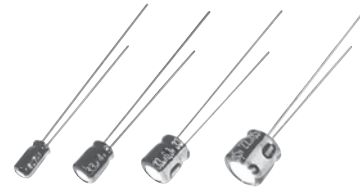
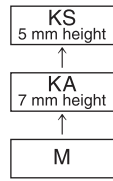


Radial Lead Type

Series : **KS (Bi-polar)** Type : **A**

Low Profile



Features

- Endurance : 85 °C 1000 h
- 5 mm height
- RoHS compliant

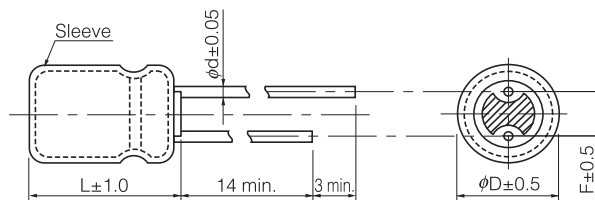
Specifications

Category temperature range	-40 °C to +85 °C	
Rated voltage range	6.3 V.DC to 50 V.DC	
Capacitance range	2.2 μF to 47 μF	
Capacitance tolerance	±20 % (120 Hz/+20 °C)	
Leakage current	I ≤ 0.05 CV or 10 (μA) After 2 minutes (Whichever is greater)	
Dissipation factor (tan δ)	Please see the attached characteristics list	
Endurance	After 1000 hours application of DC working voltage (500 hours for each polarity) at +85 °C±2 °C, when the capacitors are restored to 20 °C, the capacitors shall meet the following limits.	
	Capacitance change	Within ±20 % of the initial value
	tan δ	≤ 200 % of the initial limit
	DC leakage current	Within the initial limit
Shelf life	After storage for 1000 hours at +85 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance (With voltage treatment)	

Frequency correction factor for ripple current

Frequency (Hz)	50, 60	120	1 k	10 k to
Correction factor	0.70	1.00	1.30	1.70

Dimensions



(Unit : mm)

ϕD	4	5	6.3
ϕd	0.45	0.45	0.45
F	1.5	2.0	2.5

Characteristics list (Bi-polar)

Endurance : 85 °C 1000 h (500hours for each polarity)

Rated voltage (V.DC)	Cap. (±20 %) (μF)	Case size (mm)		Specification		Lead length (mm)			Part No.	Min. Packaging Q'ty		
		φD	L	Ripple current (120 Hz) (+85 °C) (mA r.m.s.)	tan δ (120 Hz) (+20 °C)	Lead dia. φd	Lead space			Straight leads (pcs)	Taping (pcs)	
							Straight	Taping *B				Taping *i
6.3	22	5	5	29	0.24	0.45	2.0	5.0	2.5	ECEA0JSN220()	200	2000
	33	6.3	5	38	0.24	0.45	2.5	5.0	2.5	ECEA0JSN330()	200	2000
	47	6.3	5	46	0.24	0.45	2.5	5.0	2.5	ECEA0JSN470()	200	2000
10	10	4	5	25	0.20	0.45	1.5	5.0	2.5	ECEA1ASN100()	200	2000
	22	6.3	5	35	0.20	0.45	2.5	5.0	2.5	ECEA1ASN220()	200	2000
	33	6.3	5	43	0.20	0.45	2.5	5.0	2.5	ECEA1ASN330()	200	2000
16	4.7	4	5	20	0.20	0.45	1.5	5.0	2.5	ECEA1CSN4R7()	200	2000
	10	5	5	25	0.20	0.45	2.0	5.0	2.5	ECEA1CSN100()	200	2000
	22	6.3	5	39	0.20	0.45	2.5	5.0	2.5	ECEA1CSN220()	200	2000
25	3.3	5	5	18	0.20	0.45	2.0	5.0	2.5	ECEA1ESN3R3()	200	2000
	4.7	5	5	21	0.20	0.45	2.0	5.0	2.5	ECEA1ESN4R7()	200	2000
	10	6.3	5	28	0.20	0.45	2.5	5.0	2.5	ECEA1ESN100()	200	2000
35	2.2	4	5	12	0.20	0.45	1.5	5.0	2.5	ECEA1VSN2R2()	200	2000
50	2.2	5	5	16	0.20	0.45	2.0	5.0	2.5	ECEA1HSN2R2()	200	2000

- When requesting taped product, please put the letter "B" or "i" between the "()". Lead wire pitch *B=5 mm, i=2.5 mm.
- Please refer to the page of "Taping dimensions".