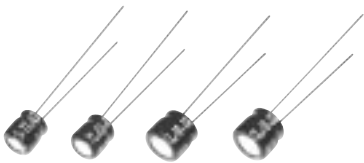


Radial Lead Type

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

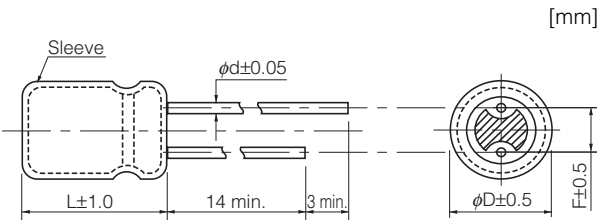


- **Features**
- Endurance : 85° C 1000 h
 - 5 mm height
 - RoHS directive compliant

■ **Specifications**

Category Temp. Range	-40 °C to +85 °C		
Rated W.V. Range	63 V.DC to 50 V.DC		
Nominal Cap. Range	0.1 μF to 47 μF		
Capacitance Tolerance	±20 % (120 Hz/+20 °C)		
DC Leakage Current	I ≤ 0.05 CV or 10 (μA) After 2 minutes (Whichever is greater)		
tan δ	Please see the attached standard products 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	± 20% of initial measured value	
	tan δ	≤200 % of initial specified value	
	DC leakage current	≤initial specified value	
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)		

■ **Dimensions in mm (not to scale)**



				(mm)
Body Dia. ϕD	4	5	6.3	
Lead Dia. ϕd	0.45	0.45	0.45	
Lead space F	1.5	2.0	2.5	

■ Standard Products (Bi-polar)

W.V.	Cap. (±20 %)	Case size		Specification		Lead Length				Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple Current (120 Hz) (+85 °C) (mA r.m.s.)	tan δ (120 Hz) (+20 °C)	Lead Dia.	Lead Space				Straight Leads	Taping
							Straight	Taping *B	Taping *i			
(V)	(μF)	(mm)	(mm)			(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
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	0.1	4	5	1	0.20	0.45	1.5	5.0	2.5	ECEA1HSN0R1()	200	2000
	0.22	4	5	2	0.20	0.45	1.5	5.0	2.5	ECEA1HSNR22()	200	2000
	0.33	4	5	3	0.20	0.45	1.5	5.0	2.5	ECEA1HSNR33()	200	2000
	0.47	4	5	5	0.20	0.45	1.5	5.0	2.5	ECEA1HSNR47()	200	2000
	1	4	5	10	0.20	0.45	1.5	5.0	2.5	ECEA1HSN010()	200	2000
	2.2	5	5	16	0.20	0.45	2.0	5.0	2.5	ECEA1HSN2R2()	200	2000

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

When requesting taped product, please put the letter "B" or "i" between the "()". Lead wire pitch B=5 mm, i=2.5 mm.

The taping dimensions are explained on p.178 of our Catalog. Please use it as a reference guide.