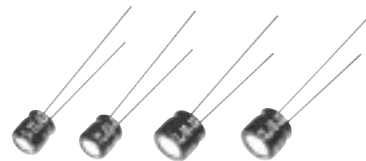


### Radial Lead Type

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



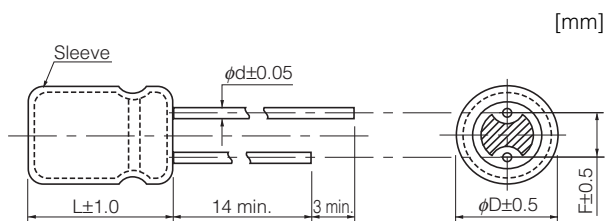
#### ■ Features

- 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)	(mA r.m.s.)	(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.