

Radial Lead Type

Series: **EB** Type: **A**



■ Features

- Endurance : +105 °C 5000 h to 10000 h
- RoHS directive compliant

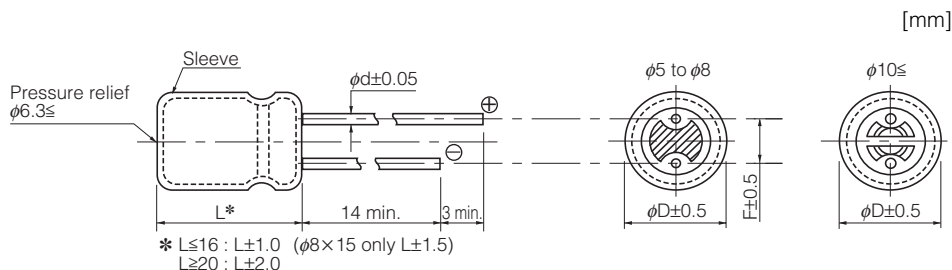
■ Specifications

Category Temp. Range	-40 °C to +105 °C	
Rated W.V. Range	10 V.DC to 63 V.DC	
Nominal Cap. Range	0.47 μF to 3300 μF	
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	$I \leq 0.01 CV$ or 3 (μA) After 2 minutes application of rated working voltage at +20 °C (Whichever is greater)	
tan δ	Please see the attached standard products list	
Endurance	After following life test with DC voltage and +105 °C±2 °C ripple current value applied (The sum of DC and ripple peak voltage shall not exceed the rated working voltage), when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified below. Duration : φ5×11 to φ8×11.5 : 5000 hours φ5×15 to φ6.3×15 : 7000 hours φ8×15 to φ12.5×25 : 10000 hours	
	Capacitance change	±30 % of initial measured value
	tan δ	≤ 300 % of initial specified value
	DC leakage current	≤ initial specified value
Shelf Life	After storage for 1000 hours at +105 °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

W. V. (V. DC)	Capacitance (μF)	Frequency (Hz)				
		60	120	1 k	10 k	100 k
10 to 63	0.47 to 10	0.75	1.00	1.40	1.55	1.65
	22 to 470	0.85	1.00	1.20	1.25	1.30
	1000 to 3300	0.95	1.00	1.05	1.10	1.15

■ Dimensions in mm (not to scale)



(mm)

	5	6.3	8	10	12.5
Body Dia. φD	5	6.3	8	10	12.5
Lead Dia. φd	0.5	0.5	0.6	0.6	0.6
Lead space F	2.0	2.5	3.5	5.0	5.0

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

00 Sep. 2008

■ Standard Products (Low Voltage)

W.V. (V)	Cap. (±20 %) (μF)	Case size		Specification			Lead Length				Part No.	Min. Packaging Qty		
		Dia. (mm)	Length (mm)	Ripple Current (120 Hz) (+105 °C) (mA r.m.s.)	tan δ (120 Hz) (+20 °C)	Endurance (hours)	Lead Dia. (mm)	Lead Space				Straight Leads (pcs)	Taping (pcs)	
								Straight (mm)	Taping *B (mm)	Taping *H (mm)				
10	100	5	15	105	0.30	7000	0.5	2.0	5.0	2.5	EEUEB1A101()	200	2000	
		5	11	66	0.30	5000	0.5	2.0	5.0	2.5	EEUEB1A101S()	200	2000	
	220	6.3	15	152	0.30	7000	0.5	2.5	5.0	2.5	EEUEB1A221()	200	2000	
		6.3	11.2	100	0.30	5000	0.5	2.5	5.0	2.5	EEUEB1A221S()	200	2000	
	470	8	15	278	0.30	10000	0.6	3.5	5.0		EEUEB1A471()	200	1000	
		8	11.5	180	0.30	5000	0.6	3.5	5.0		EEUEB1A471S()	200	1000	
16	2200	12.5	20	540	0.32	10000	0.6	5.0	5.0		EEUEB1A222()	200	500	
		12.5	25	802	0.34	10000	0.6	5.0	5.0		EEUEB1A332()	200	500	
	1000	10	20	430	0.25	10000	0.6	5.0	5.0		EEUEB1C102()	200	500	
		12.5	25	706	0.27	10000	0.6	5.0	5.0		EEUEB1C222()	200	500	
	25	47	5	15	78	0.22	7000	0.5	2.0	5.0	2.5	EEUEB1E470()	200	2000
			5	11	55	0.22	5000	0.5	2.0	5.0	2.5	EEUEB1E470S()	200	2000
100		6.3	15	135	0.22	7000	0.5	2.5	5.0	2.5	EEUEB1E101()	200	2000	
		6.3	11.2	95	0.22	5000	0.5	2.5	5.0	2.5	EEUEB1E101S()	200	2000	
220		8	11.5	125	0.22	5000	0.6	3.5	5.0		EEUEB1E221S()	200	1000	
330		8	15	255	0.22	10000	0.6	3.5	5.0		EEUEB1E331()	200	1000	
35	470	10	16	321	0.22	10000	0.6	5.0	5.0		EEUEB1E471()	200	500	
		12.5	20	498	0.22	10000	0.6	5.0	5.0		EEUEB1E102()	200	500	
	1000	5	15	66	0.18	7000	0.5	2.0	5.0	2.5	EEUEB1V330()	200	2000	
		5	11	46	0.18	5000	0.5	2.0	5.0	2.5	EEUEB1V330S()	200	2000	
	220	8	15	197	0.18	10000	0.6	3.5	5.0		EEUEB1V221()	200	1000	
	330	10	16	278	0.18	10000	0.6	5.0	5.0		EEUEB1V331()	200	500	
50	470	10	20	349	0.18	10000	0.6	5.0	5.0		EEUEB1V471()	200	500	
		12.5	25	586	0.18	10000	0.6	5.0	5.0		EEUEB1V102()	200	500	
	0.47	5	11	4	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1HR47S()	200	2000	
		1	5	11	8	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H1R0S()	200	2000
	2.2	5	11	15	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H2R2S()	200	2000	
	3.3	5	11	18	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H3R3S()	200	2000	
	4.7	5	11	18	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H4R7S()	200	2000	
		5	11	27	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H100S()	200	2000	
	22	5	15	55	0.15	7000	0.5	2.0	5.0	2.5	EEUEB1H220()	200	2000	
		5	11	39	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H220S()	200	2000	
	47	6.3	15	87	0.15	7000	0.5	2.5	5.0	2.5	EEUEB1H470()	200	2000	
		6.3	11.2	61	0.15	5000	0.5	2.5	5.0	2.5	EEUEB1H470S()	200	2000	
	100	8	11.5	99	0.15	5000	0.6	3.5	5.0		EEUEB1H101S()	200	1000	
	220	10	16	234	0.15	10000	0.6	5.0	5.0		EEUEB1H221()	200	500	
	330	10	20	293	0.15	10000	0.6	5.0	5.0		EEUEB1H331()	200	500	
	470	12.5	20	370	0.15	10000	0.6	5.0	5.0		EEUEB1H471()	200	500	
63	0.47	5	15	6	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1JR47()	200	2000	
		5	11	4.5	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1JR47S()	200	2000	
	1	5	15	12	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J1R0()	200	2000	
		5	11	9	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J1R0S()	200	2000	
	2.2	5	15	22	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J2R2()	200	2000	
		5	11	16.5	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J2R2S()	200	2000	
	3.3	5	15	30	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J3R3()	200	2000	
		5	11	20	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J3R3S()	200	2000	
	4.7	5	15	30	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J4R7()	200	2000	
		5	11	23	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J4R7S()	200	2000	
	10	5	15	46	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J100()	200	2000	
		5	11	30	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J100S()	200	2000	
	22	6.3	15	55	0.12	7000	0.5	2.5	5.0	2.5	EEUEB1J220()	200	2000	
		6.3	11.2	40	0.12	5000	0.5	2.5	5.0	2.5	EEUEB1J220S()	200	2000	
	33	6.3	15	71	0.12	7000	0.5	2.5	5.0	2.5	EEUEB1J330()	200	2000	
		6.3	11.2	50	0.12	5000	0.5	2.5	5.0	2.5	EEUEB1J330S()	200	2000	
47	8	15	94	0.12	10000	0.6	3.5	5.0		EEUEB1J470()	200	1000		
	8	11.5	80	0.12	5000	0.6	3.5	5.0		EEUEB1J470S()	200	1000		
100	8	15	180	0.12	10000	0.6	3.5	5.0		EEUEB1J101()	200	1000		
220	10	20	292	0.12	10000	0.6	5.0	5.0		EEUEB1J221()	200	500		
330	12.5	20	381	0.12	10000	0.6	5.0	5.0		EEUEB1J331()	200	500		
470	12.5	25	454	0.12	10000	0.6	5.0	5.0		EEUEB1J471()	200	500		

Endurance : 105 °C ϕ5×11 to ϕ8×11.5=5000 h, ϕ5×15 to ϕ6.3×15=7000 h, ϕ8×15 to ϕ12.5×25=10000 h
 When requesting taped product, please put the letter "B" or "H" between the "()". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm.
 The taping dimensions are explained on p.178 of our Catalog. Please use it as a reference guide.

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