

Radial Lead Type

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



■ Features

- Endurance : +105 °C 5000 h to 10000 h
- High ripple high frequency (High Voltage)
- RoHS directive compliant

■ Specifications

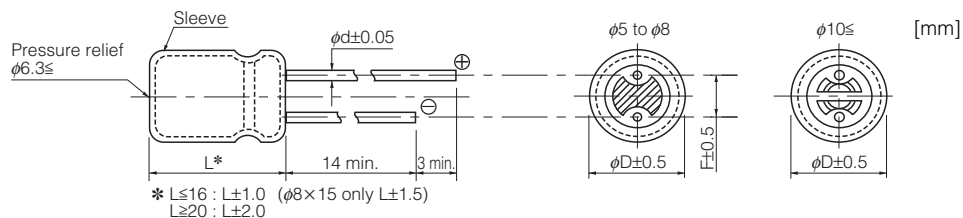
Category Temp. Range	-40 °C to +105 °C	-25 °C to +105 °C
Rated W.V. Range	10 V.DC to 63 V.DC	160 V.DC to 450 V.DC
Nominal Cap. Range	0.47 μF to 3300 μF	10 μF to 330 μF
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	I ≤ 0.01 CV or 3 (μA) After 2 minutes application of rated working voltage 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.	
	(10 to 63 V.DC) 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
	(160 to 450 V.DC) Duration : 5000 hours	
	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 +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 (10 ~ 63 V.DC)

Capacitance (μF)	Frequency (Hz)				
	60	120	1 k	10 k	100 k
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

W. V. (V. DC)	Frequency (Hz)			
	120	1 k	10 k to 30k	30 k to 100k
160 to 250	0.55	0.85	0.90	1.00
350 to 450	0.50	0.80	0.90	1.00

■ Dimensions in mm (not to scale)



	[mm]						
Body Dia. φD	5	6.3	8	10	12.5	16	18
Lead Dia. φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
Lead space F	2.0	2.5	3.5	5.0	5.0	7.5	7.5

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00 Sep. 2010

■ Standard Products

W.V. (V)	Cap. (±20 %) (μF)	Case size		Specification			Lead Length			Part No.	Min. Packaging Q'ty		
		Dia. (mm)	Length (mm)	Ripple Current (100 kHz) (+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)				
160	22	10	20	470	0.15	5000	0.6	5.0	5.0	EEUEB2C220()	200	500	
	33	10	20	470	0.15	5000	0.6	5.0	5.0	EEUEB2C330()	200	500	
	47	12.5	20	600	0.15	5000	0.6	5.0	5.0	EEUEB2C470()	200	500	
	68	12.5	25	750	0.15	5000	0.6	5.0	5.0	EEUEB2C680()	200	500	
		16	20	750	0.15	5000	0.8	7.5	7.5	EEUEB2C680S()	100	250	
	100	16	25	1060	0.15	5000	0.8	7.5	7.5	EEUEB2C101()	100	250	
		18	20	1060	0.15	5000	0.8	7.5	7.5	EEUEB2C101S()	100	250	
	150	16	31.5	1280	0.15	5000	0.8	7.5	–	EEUEB2C151	100	–	
		18	25	1280	0.15	5000	0.8	7.5	7.5	EEUEB2C151S()	100	250	
	220	16	31.5	1280	0.15	5000	0.8	7.5	–	EEUEB2C221	100	–	
		18	25	1280	0.15	5000	0.8	7.5	7.5	EEUEB2C221S()	100	250	
	330	18	31.5	1690	0.15	5000	0.8	7.5	–	EEUEB2C331	50	–	
200	22	10	20	470	0.15	5000	0.6	5.0	5.0	EEUEB2D220()	200	500	
	33	12.5	20	600	0.15	5000	0.6	5.0	5.0	EEUEB2D330()	200	500	
	47	12.5	20	600	0.15	5000	0.6	5.0	5.0	EEUEB2D470()	200	500	
	68	12.5	25	750	0.15	5000	0.6	5.0	5.0	EEUEB2D680()	200	500	
		16	20	750	0.15	5000	0.8	7.5	7.5	EEUEB2D680S()	100	250	
	100	16	25	1060	0.15	5000	0.8	7.5	7.5	EEUEB2D101()	100	250	
		18	20	1060	0.15	5000	0.8	7.5	7.5	EEUEB2D101S()	100	250	
	150	16	31.5	1280	0.15	5000	0.8	7.5	–	EEUEB2D151	100	–	
		18	25	1280	0.15	5000	0.8	7.5	7.5	EEUEB2D151S()	100	250	
	220	18	31.5	1690	0.15	5000	0.8	7.5	–	EEUEB2D221	100	–	
	250	22	12.5	20	560	0.15	5000	0.6	5.0	5.0	EEUEB2E220()	200	500
		33	12.5	20	560	0.15	5000	0.6	5.0	5.0	EEUEB2E330()	200	500
47		12.5	25	710	0.15	5000	0.6	5.0	5.0	EEUEB2E470()	200	500	
		16	20	710	0.15	5000	0.8	7.5	7.5	EEUEB2E470S()	100	250	
68		16	25	990	0.15	5000	0.8	7.5	7.5	EEUEB2E680()	100	250	
		18	20	990	0.15	5000	0.8	7.5	7.5	EEUEB2E680S()	100	250	
100		16	31.5	1200	0.15	5000	0.8	7.5	–	EEUEB2E101	100	–	
		18	25	1200	0.15	5000	0.8	7.5	7.5	EEUEB2E101S()	100	250	
150		18	31.5	1470	0.15	5000	0.8	7.5	–	EEUEB2E151	50	–	
350		10	10	20	270	0.20	5000	0.6	5.0	5.0	EEUEB2V100()	200	500
		22	12.5	20	350	0.20	5000	0.6	5.0	5.0	EEUEB2V220()	200	500
		33	16	20	480	0.20	5000	0.8	7.5	7.5	EEUEB2V330S()	100	250
	16		25	640	0.20	5000	0.8	7.5	7.5	EEUEB2V470()	100	250	
	47	18	20	640	0.20	5000	0.8	7.5	7.5	EEUEB2V470S()	100	250	
		16	31.5	780	0.20	5000	0.8	7.5	–	EEUEB2V680	100	–	
	68	18	25	780	0.20	5000	0.8	7.5	7.5	EEUEB2V680S()	100	250	
		100	18	31.5	970	0.20	5000	0.8	7.5	–	EEUEB2V101	50	–
	400	10	10	20	250	0.24	5000	0.6	5.0	5.0	EEUEB2G100()	200	500
		22	12.5	25	410	0.24	5000	0.6	5.0	5.0	EEUEB2G220()	200	500
			16	20	410	0.24	5000	0.8	7.5	7.5	EEUEB2G220S()	100	250
		33	16	25	600	0.24	5000	0.8	7.5	7.5	EEUEB2G330()	100	250
18			20	600	0.24	5000	0.8	7.5	7.5	EEUEB2G330S()	100	250	
47		16	31.5	730	0.24	5000	0.8	7.5	–	EEUEB2G470	100	–	
		18	25	730	0.24	5000	0.8	7.5	7.5	EEUEB2G470S()	100	250	
450		10	12.5	20	310	0.24	5000	0.6	5.0	5.0	EEUEB2W100()	200	500
		22	16	25	560	0.24	5000	0.8	7.5	7.5	EEUEB2W220()	100	250
			18	20	560	0.24	5000	0.8	7.5	7.5	EEUEB2W220S()	100	250
		33	16	31.5	680	0.24	5000	0.8	7.5	–	EEUEB2W330()	100	–
			18	25	680	0.24	5000	0.8	7.5	7.5	EEUEB2W330S()	100	250
	47	18	31.5	850	0.24	5000	0.8	7.5	–	EEUEB2W470	50	–	

Endurance : 105 °C 5000 h

When requesting taped product, please put the letter "B" between the "()". Lead wire pitch B=5 mm, 7.5 mm. The taping dimensions are explained on EE189 of our Catalog. Please use it as a reference guide.

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