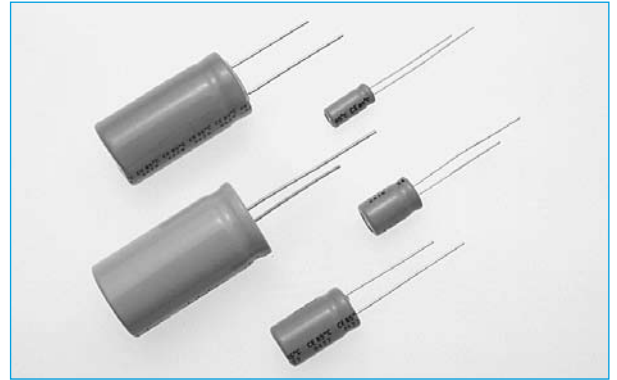


## CAPACITORS

## ALUMINIUM ELECTROLYTIC REDUCED RADIAL CEBR

SECTION 1

- Miniaturised size version for general purpose
- 2000 hour long-life at +85 °C
- Expanded lead taping range
- Safety vent construction products



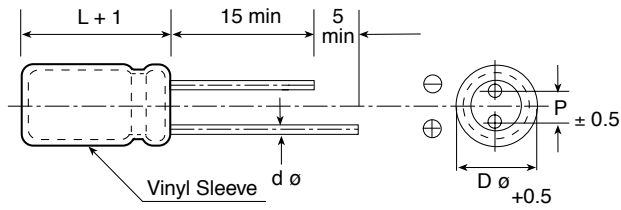
## SPECIFICATION

Item	Performance Characteristics									
Operating Temperature Range	-40 to +85°C									
Rated Working Voltage Range	6.3 to 100V DC									
Nominal Capacitance Range	10 to 22000µF									
Capacitance Tolerance	± 20% (120Hz, +20°C)									
Leakage Current	1 ≤ 0.01CV or 3 [µA] after 2 min. whichever is greater measured with rated working voltage at +20°C									
tan δ (120Hz, +20°C)	Working Voltage [V]	6.3	10	16	25	35	50	63	100	
	tan δ max.	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	
	For capacitance value >F, add 0.02 per another 1000µF									
Characteristics at Low Temp.	Impedance ratio max. at 120Hz									
	Working Voltage [V]	6.3	10	16	25	35	50	63	100	
	-25°C/+20°C	5	4	3	2	2	2	2	2	
	-40°C/+20°C	12	10	8	5	4	3	3		
For capacitance value > 1000µF,	add 0.5 per another 1000µF for +25°C/+25°C.									
	add 1.0 per another 1000µF for -40°C/+20°C.									
Ripple Current	Refer to standard products table (120Hz, +85 °C)									
	Frequency [Hz]		50/60	120	1K	10K				
	Correction factor (Multiplier)		0.7	1	1.3	1.7				
High Temperature Loading	Test conditions									
	Duration	2000 hours								
	Ambient temperature	+85°C								
	Applied voltage	Rated DC working voltage								
	Post test requirements at +20°C									
	Leakage current	≤ initial specified value								
	Capacitance change	≤ ± 20% of initial measured value								
	tan δ	≤ 150% of initial specified value								
Shelf Life	Test conditions									
	Duration	1000 hours								
	Ambient temperature	+85°C								
	Applied voltage	(None)								
	Post test requirements at +20°C									
	Same limits for high temperature loading									

## ORDERING INFORMATION

CEBR	100	16	TA
Range	Capacitance µF	Voltage V	Options: TA = Tape/Ammo-box
TA = 5mm pitch, e.g. TA 2mm = 2mm pitch			

OUTLINE DRAWING



<b>D<math>\varnothing</math></b>	5	6.3	8	10	13	16	18
<b>P</b>	2	2.5	3.5	5.0	5.0	7.5	7.5
<b>d<math>\varnothing</math></b>	0.5	0.5	0.6		0.8		

Dimensions in mm

CASE SIZE TABLE

$\mu F$	WV	6.3	10	16	25	35	50	63	100
10								→	5x11
22							→	5x11	6.3x11
33						→	5x11	6.3x11	8x12
47					→	5x11	6.3x11	6.3x11	8x12
100		→		5x11	6.3x11	6.3x11	8x12	10x13	10x17
220	5x11	6.3x11	6.3x11	8x12	8x12	10x13	10x17	10x17	13x21
330	6.3x11	6.3x11	8x12	8x12	10x13	10x17	10x20	10x20	13x25
470	6.3x11	8x12	8x12	10x13	10x17	10x20	13x21	16x25.5	
1000	8x12	10x13	10x17	10x20	13x21	13x25	16x25.5	18x35.5	
2200	10x17	10x20	13x21	13x25	16x25.5	16x31.5	18x35.5		
3300	10x20	13x21	13x25	16x25.5	16x31.5	18x35.5			
4700	13x21	13x25	16x25.5	16x31.5	18x35.5				
6800	13x25	16x25.5	16x31.5	18x35.5					
10000	16x25.5	16x31.5	18x35.5						
15000	16x31.5	18x35.5							
22000	18x35.5								

Sizes may reduce as technology continually improves.

MAXIMUM RIPPLE CURRENT

$\mu F$	Volts	6.3	10	16	25	35	50	63	100
10								→	60
22							→	85	105
33						→	105	100	140
47					→	100	120	160	200
100		→		140	150	185	200	260	340
220	170	190	200	260	320	380	410	550	
330	210	280	300	380	420	490	540	720	
470	300	330	400	420	430	750	755	1100	
1000	510	580	630	760	950	1100	1310	1350	
2200	840	880	1100	1300	1600	1900	2300		
3300	1000	1250	1200	1660	1670	2170			
4700	1450	1500	1650	1950	2400				
6800	1820	2150	2100	2500					
10000	2250	2225	2600						
15000	2500	2950							
22000	3100								