

## ● 超低ESR

**OMB** シリーズJIS C 5101  
CE-32

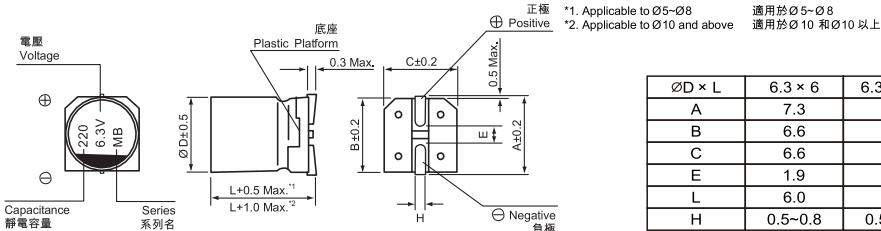
## ● Ultra low E.S.R.

TYPE **OMB**JIS C 5101  
CE-32

## ■ FEATURES

- Operating with wide temperature range -55~+105°C
- Higher capacitance, ultra-low ESR, high ripple current
- Load life of 2000 hours
- RoHS & REACH compliant, Halogen-free

## ■ 尺寸図/DIAGRAM OF DIMENSIONS



ØD × L	6.3 × 6	6.3 × 7.7	8 × 10.5	8 × 12.5	10 × 10.5	10 × 12.5
A	7.3	7.3	9.0	9.0	11.0	11.0
B	6.6	6.6	8.3	8.3	10.3	10.3
C	6.6	6.6	8.3	8.3	10.3	10.3
E	1.9	1.9	3.1	3.1	4.7	4.7
L	6.0	7.7	10.5	12.5	10.5	12.5
H	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	0.8~1.1	0.8~1.1

## ■ 性能/PERFORMANCE SPECIFICATIONS

カテゴリー 温度範囲	CATEGORY TEMPERATURE RANGE		-55 ~ +105°C	
標準静電容量許容差	STANDARD CAPACITANCE TOLERANCE		±20% at 120Hz, 20°C	
漏れ電流 (最大値)	LEAKAGE CURRENT (MAX.VALUE)		≤ Specified value (after 2 minutes application of rated voltage at 20°C)	
損失角の正接 (最大値)	DISSIPATION FACTOR (MAX.VALUE)		≤ Specified value at 120KHz, 20°C.	
E.S.R	E.S.R.		≤ Specified value at 100KHz, 20°C.	
低溫特性	Stability at Low Temperature		Measurement frequency 測試頻率: 100KHz Impedance Ratio 阻抗比 Z(+105°C)/Z(20°C) ≤ 1.25 Z(-55°C)/Z(20°C) ≤ 1.25	
耐久性	LOAD LIFE TEST		Capacitance Change Within ±20% of initial value Dissipation Factor 150% or less of initial specified value ESR 150% or less of initial specified value Leakage Current Initial specified value or less  After 2000 hours application of the rated voltage at 105 °C, they meet the characteristics listed below.	
	MOISTURE RESISTANCE		After reflow soldering and restored at room temperature, they meet the characteristics listed below.	
定格リップル電流補正係数	RIPPLE CURRENT & FREQUENCY MULTIPLIERS		Frequency(Hz) 120Hz ≤ f ≤ 1KHz 1KHz ≤ f ≤ 10KHz 10KHz ≤ f ≤ 100KHz 100KHz ≤ f ≤ 300KHz Coefficient 0.10 0.40 0.70 1.00	

## ■ 定格リップル電流補正係数

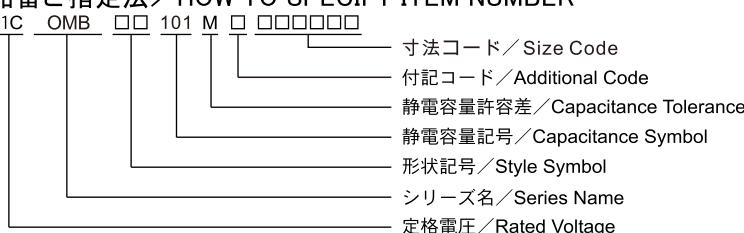
リップル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the spicification shown in the list of standard products, multiply the value with the coefficient shown below, and use the products under the obtained value.

## 周波数補正係数/FREQUENCY CORRECTION FACTOR

Cap.( $\mu$ F)	Frequency (Hz)			
	120	1K	10K	100K
27~180	0.40	0.75	0.90	1.00
220~560	0.50	0.85	0.94	1.00
680~1800	0.60	0.87	0.95	1.00
2200~3900	0.75	0.90	0.95	1.00
4700~10000	0.85	0.95	0.98	1.00

## ■ 品番ご指定法/HOW TO SPECIFY ITEM NUMBER



## ■寸法表／CASE SIZE TABLE

■Impedance[Max. Value Ω] at 20°C 100kHz

■Ripple Current [Max. value mA] at 105°C 100kHz

WV (V)	Parameter	2.5 (0E)					4 (0G)					
		Cap. (μF)	Case size ØD×L (mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms) 105°C, 100KHz	Case size ØD×L (mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms) 105°C, 100KHz
150	151							5 × 5.8	0.12	120	12	3500
220	221							5 × 5.8 (6.3 × 5.8)	0.12 (0.12)	176 (176)	12 (10)	3500 (3900)
270	271							6.3 × 7.7	0.12	216	9	4200
330	331	5 × 5.8	0.12	165	10	3900	6.3 × 7.7 (6.3 × 7)	0.12 (0.12)	264 (264)	9 (10)	4200 (4500)	
390	391	5 × 5.8 (6.3 × 5.8)	0.12 (0.12)	195 (195)	10 (10)	3900 (3900)	6.3 × 7	0.12	312	10	4500	
470	471	6.3 × 7.7	0.12	332.5	9	4200	8 × 7.7	0.12	376	9	4500	
560	561	6.3 × 7.7 (6.3 × 7) (6.3 × 5.8)	0.12 (0.12) (0.12)	280 (280) (280)	9 (10) (10)	4200 (4500) (3900)	8 × 7.7	0.12	448	9	4500	
680	681	6.3 × 7	0.12	340	10	4500						
1000	102	8 × 7.7	0.12	500	9	4500						

WV (V)	Parameter	6.3 (0J)					10 (1A)				
		Cap. (μF)	Case size ØD×L (mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms) 105°C, 100KHz	Case size ØD×L (mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz
100	101	5 × 5.5	0.12	126	25	2200	6.3 × 5.5	0.12	200	25	2600
120	121						5 × 5.8	0.12	240	22	2600
150	151						6.3 × 6.5	0.12	300	20	2800
220	221	6.3 × 5 (6.3 × 6)	0.12 (0.12)	277 (277)	16 (16)	3400 (3400)	6.3 × 6.5	0.12	440	20	2900
270	271	5 × 8 (5 × 9)	0.12 (0.12)	340 (340)	16 (16)	3000 (3000)	6.3 × 5.8	0.12	540	20	2800
330	331	6.3 × 6.5	0.12	416	12	3950					
470	471	6.3 × 7.7	0.12	592	12	3950					
560	561	6.3 × 9	0.12	706	10	4500					

WV (V)	Parameter	16 (1C)				
		Cap. (μF)	Case size ØD×L (mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz
100	101	6.3 × 6 (6.3 × 6.5)	0.12 (0.12)	320 (320)	24 (24)	2500 (2500)
180	181	6.3 × 5.8	0.12	576	22	3300
220	221	6.3 × 7.7 (6.3 × 9)	0.12 (0.12)	704 (704)	22 (20)	3300 (3300)
270	271	8 × 6.7	0.12	864	22	3300
330	331	8 × 7.7	0.12	1050	21	3400
470	471	10 × 12	0.12	1504	11	5200