

●125°C高温，高可靠品
OMRシリーズ

JIS C 5101
CE-32

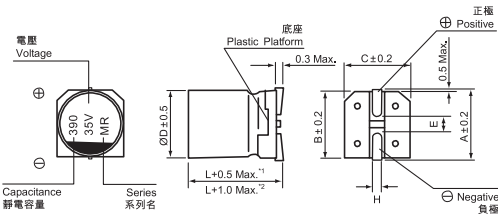
●125°C High Temperature, High Reliability
TYPE **OMR**

JIS C 5101
CE-32

■FEATURES

- Operating with wide temperature range -55~+125°C
- High reliability, low ESR, high ripple current
- Load life of 1500~3000 hours
- RoHS & REACH compliant, Halogen-free

■寸法図/DIAGRAM OF DIMENSIONS



*1. Applicable to Ø5-Ø8 適用於Ø5-Ø8
*2. Applicable to Ø10 and above 適用於Ø10 和Ø10 以上

ØD × L	6.3×6/8	8×7/7.5	8×10/10.5	8×12	10×8	10×10/10.5	10×12.7
A	7.3	9.0	9.0	9.0	11.0	11.0	10.0
B	6.6	8.3	8.3	8.3	10.3	10.3	10.3
C	6.6	8.3	8.3	8.3	10.3	10.3	10.3
E	2.1	3.2	3.2	3.2	4.6	4.6	4.6
L	6.0/8.0	7.0/7.5	10.0/10.5	12	8.0	10.0/10.5	12.7
H	0.5~0.8	0.8~1.1	0.8~1.1	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 ~ +125°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.										
低温特性	Stability at Low Temperature	Measurement frequency 測試頻率: 100KHz <table border="1"> <tr> <td>Impedance Ratio 阻抗比 ZT/Z20 (max)</td> <td>Z(+125°C)/Z(20°C) ≤ 1.25 Z(-55°C)/Z(20°C) ≤ 1.25</td> </tr> </table>	Impedance Ratio 阻抗比 ZT/Z20 (max)	Z(+125°C)/Z(20°C) ≤ 1.25 Z(-55°C)/Z(20°C) ≤ 1.25								
Impedance Ratio 阻抗比 ZT/Z20 (max)	Z(+125°C)/Z(20°C) ≤ 1.25 Z(-55°C)/Z(20°C) ≤ 1.25											
耐久性	LOAD LIFE TEST	<table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>150% or less of initial specified value</td> </tr> <tr> <td>ESR</td> <td>150% or less of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table> After 3000 hours (1500 hours for Ø6.3) application of the rated voltage at 125°C, they meet the characteristics listed below.	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		
	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											
	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	<table border="1"> <tr> <th>Frequency(Hz)</th> <th>120Hz ≤ f ≤ 1KHz</th> <th>1KHz ≤ f ≤ 10KHz</th> <th>10KHz ≤ f ≤ 100KHz</th> <th>100KHz ≤ f ≤ 300KHz</th> </tr> <tr> <td>Coefficient</td> <td>0.10</td> <td>0.40</td> <td>0.70</td> <td>1.00</td> </tr> </table>	Frequency(Hz)	120Hz ≤ f ≤ 1KHz	1KHz ≤ f ≤ 10KHz	10KHz ≤ f ≤ 100KHz	100KHz ≤ f ≤ 300KHz	Coefficient	0.10	0.40	0.70	1.00
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

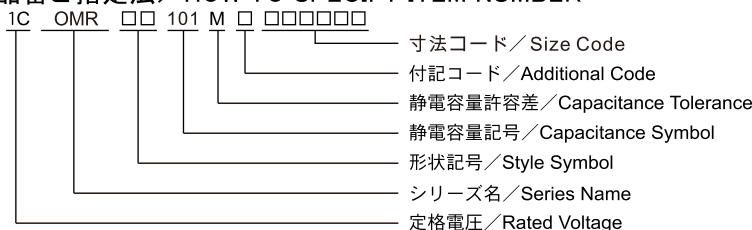
リップル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the specification 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.(µF)	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 Cap. (μF)		16 (1C)						20 (1D)					
		Case size ∅D×L(mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms)		Case size ∅D×L(mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms)	
						≤105°C(注)	105°C≤125°C(注)					≤105°C(注)	105°C≤125°C(注)
33	330							6.3 × 6	0.12	132	60	900	380
47	470	6.3 × 6	0.12	150	55	1000	390						
56	560							8 × 7 (8 × 7.5)	0.12 (0.12)	224 (224)	50 (50)	1300 (1300)	500 (500)
68	680							6.3 × 8	0.12	272	34	1450	470
82	820	8 × 7 (8 × 7.5)	0.12 (0.12)	262 (262)	45 (45)	1300 (1300)	530 (530)						
100	101	6.3 × 8	0.12	320	33	1500	460						
120	121							8 × 10 (8 × 10.5) (10 × 8)	0.12 (0.12) (0.12)	480 (480) (480)	29 (29) (35)	1900 (1900) (1800)	770 (770) (810)
150	151	8 × 10 (10 × 8)	0.12 (0.12)	480 (480)	28 (33)	2000 (1900)	780 (830)	8 × 12	0.12	600	28	2200	860
180	181							10 × 10 (10 × 10.5)	0.12 (0.12)	720 (720)	28 (28)	2300 (2300)	800 (800)
220	221	8 × 12	0.12	704	27	2300	870						
270	271	10 × 10 (10 × 10.5)	0.12 (0.12)	864 (864)	27 (27)	2300 (2300)	830 (830)	10 × 12.7	0.12	1080	27	2700	1020
390	391	10 × 12.7	0.12	1248	26	2700	1040						

WV (V) Parameter Cap. (μF)		25 (1E)						35 (1V)					
		Case size ∅D×L(mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms)		Case size ∅D×L(mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms)	
						≤105°C(注)	105°C≤125°C(注)					≤105°C(注)	105°C≤125°C(注)
10	100							6.3 × 6	0.12	70	85	800	310
18	180							8 × 7 (8 × 7.5)	0.12 (0.12)	126 (126)	60 (60)	1100 (1100)	450 (450)
22	220	6.3 × 6	0.12	110	65	900	360						
27	270							6.3 × 8	0.12	189	45	1300	450
39	390	8 × 7 (8 × 7.5)	0.12 (0.12)	195 (195)	55 (55)	1200 (1200)	480 (480)	8 × 10 (8 × 10.5) (10 × 8)	0.12 (0.12) (0.12)	273 (273) (273)	35 (35) (41)	1800 (1800) (1700)	700 (700) (750)
56	560	6.3 × 8	0.12	280	35	1400	450	8 × 12	0.12	392	33	2000	780
68	680							10 × 10 (10 × 10.5)	0.12 (0.12)	476 (476)	30 (30)	2200 (2200)	740 (740)
82	820	8 × 10 (8 × 10.5) (10 × 8)	0.12 (0.12) (0.12)	410 (410) (410)	30 (30) (36)	1900 (1900) (1800)	760 (760) (800)						
100	101							10 × 10 (10 × 12.7)	0.12 (0.12)	700 (700)	25 (29)	2400 (2600)	800 (990)
120	121	8 × 12 (10 × 10.5)	0.12 (0.12)	600 (600)	29 (29)	2200 (2200)	850 (850)						
180	181	10 × 12.7	0.12	900	28	2600	1010						

■寸法表/CASE SIZE TABLE

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

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

Cap. (μF)		WV (V)		50 (1H)					
		Parameter		Case size ∅D×L(mm)	Dissipation factor (tan δ)	Leakage current (μA)	ESR (mΩ) max. 20°C, 100KHz	Ripple current (mA rms)	
								≤105°C ^(*)	105°C≤125°C ^(*)
5.6	5R6			6.3 × 6	0.12	56	105	700	280
10	100			8 × 7 (8 × 7.5)	0.12 (0.12)	100 (100)	75 (75)	1000 (1000)	410 (410)
12	120			6.3 × 8	0.12	120	65	1100	380
22	220			8 × 10 (8 × 10.5) (10 × 8)	0.12 (0.12) (0.12)	220 (220) (220)	37 (37) (56)	1700 (1700) (1400)	680 (680) (730)
27	270			8 × 12	0.12	270	35	2000	760
33	330			10 × 10 (10 × 10.5)	0.12 (0.12)	330 (330)	31 (31)	2200 (2200)	630 (630)
47	470			10 × 12.7	0.12	470	30	2500	970