



MBZ SERIES

◆ FEATURES

- Low impedance at 100kHz.
- Enabled high ripple current by a reduction of ESR at high frequency range.
- Load Life : 105°C 2000hours.

◆ SPECIFICATIONS

Item	Characteristics												
Operating Temperature Range	-40 ~ +105°C												
Rated voltage Range	6.3 ~ 16V. DC												
Capacitance Tolerance	±20% (20°C, 120Hz)												
Leakage Current	I=0.03CV (After 2minutes) I= Leakage Current(μ A) C= Nominal Capacitance(μ F) V= Rated Voltage(V)												
Dissipation Factor (tan δ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> </tr> </tbody> </table> MAX (20°C,120Hz) When nominal capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.	Rated Voltage (V)	6.3	10	16	tan δ	0.22	0.19	0.16				
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Load Life	After applying rated voltage with max ripple current for 2000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within \pm25% of the initial Value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>	Capacitance Change	Within \pm 25% of the initial Value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.						
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Low Temperature Stability Impedance Ratio	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> MAX (120Hz)	Rated Voltage (V)	6.3	10	16	Z(-25°C)/Z(+20°C)	2	2	2	Z(-40°C)/Z(+20°C)	3	3	3
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Reference Standard	JIS C 5141, EIAJ RC-2372												

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)	120	1k	10k	100k \leq
coefficient	0.50	0.80	0.90	1.00

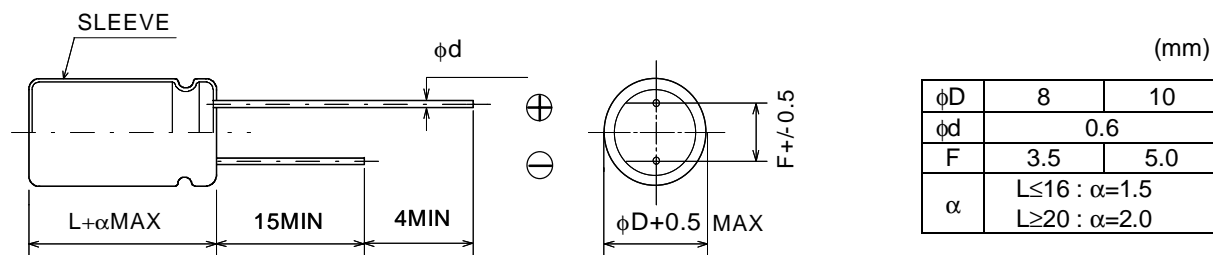
Temperature coefficient

Ambient Temperature(°C)	105	85	65 \geq
coefficient	1.0	1.7	2.1

*Specifications subject to change without notice.

Rubycon**MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS****MBZ**

DIMENSIONS



◆ Standard size, Maximum permissible ripple current

Ripple Current(mA r.m.s./105°C,100kHz)

Rated voltage 6.3V (0J)			
Nominal capacitance (μF)	Size $\phi D \times L$ (mm)	Ripple Current	ESR (mΩMAX) 20°C,100kHz
820	8X11.5	1140	36
1200	8X16	1490	28
1800	8X20	1870	19
1500	10X12.5	1540	26
1800	10X16	2000	19
2200	10X20	2550	13
3300	10X23	2800	12

Rated voltage 10V (1A)			
Nominal capacitance (μF)	Size $\phi D \times L$ (mm)	Ripple Current	ESR (mΩMAX) 20°C,100kHz
680	8X11.5	1140	36
1000	8X16	1490	28
1500	8X20	1870	19
1000	10X12.5	1540	26
1500	10X16	2000	19
1800	10X20	2550	13
2200	10X23	2800	12

Rated voltage 16V (1C)			
Nominal capacitance (μF)	Size $\phi D \times L$ (mm)	Ripple Current	ESR (mΩMAX) 20°C,100kHz
470	8X11.5	1140	36
680	8X16	1490	28
1000	8X20	1870	19
680	10X12.5	1540	26
1000	10X16	2000	19
1500	10X20	2550	13
1800	10X23	2800	12

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