

Jamicon Series : MZ

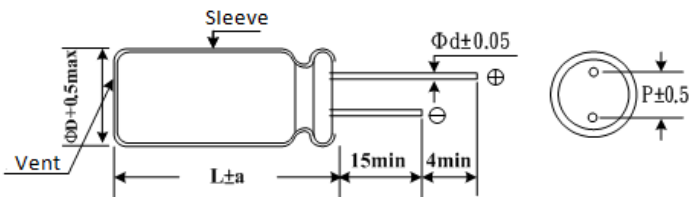
Teapo Series : MZ Ultra low impedance

- Endurance: 105°C 2000 hours
- Recommended Applications : Applicable for switching regulator of computer, especially for high frequency
- Corresponding product to RoHS

**■ SPECIFICATIONS**

Item	Characteristics																				
Category Temperature Range	-40 ~ +105°C																				
Rated Voltage Range	6.3 ~ 25VDC																				
Rated Capacitance Range	470 ~ 4700 $\mu$ F																				
Capacitance Tolerance	$\pm 20\%$ (120Hz, 20°C)																				
Leakage Current (20°C)	$I=0.03CV$ or $3(\mu A)$ whichever is greater, (After rated voltage applied for 2 minutes) I : Max. leakage current ( $\mu A$ ), C : Nominal capacitance ( $\mu F$ ), V : Rated voltage (V)																				
Dissipation Factor(MAX) ( $\tan \delta$ ) (120Hz, 20°C)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> </tr> <tr> <td><math>\tan \delta</math></td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.16</td> </tr> </table>	WV	6.3	10	16	25	$\tan \delta$	0.22	0.19	0.16	0.16										
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$\tan \delta$	0.22	0.19	0.16	0.16																	
When nominal capacitance is over 1000 $\mu$ F, $\tan \delta$ shall be added 0.02 to the listed value with increase of every 1000 $\mu$ F.																					
Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> </tr> <tr> <td>Z(120Hz)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> </tr> </table>	WV	6.3	10	16	25	Z(120Hz)					Z-25°C / Z+20°C	4	3	2	2	Z-40°C / Z+20°C	8	6	4	4
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Z-25°C / Z+20°C	4	3	2	2																	
Z-40°C / Z+20°C	8	6	4	4																	
After applying rated voltage with ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements.																					
Endurance	<table border="1"> <tr> <td>Capacitance change</td> <td>Within <math>\pm 25\%</math> of initial value</td> </tr> <tr> <td>D.F. (<math>\tan \delta</math>)</td> <td>Not more than 200% of specified value</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the specified value</td> </tr> </table>	Capacitance change	Within $\pm 25\%$ of initial value	D.F. ( $\tan \delta$ )	Not more than 200% of specified value	Leakage current	Not more than the specified value														
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Leakage current	Not more than the specified value																				
Shelf Life																					
After placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirement as Endurance.																					

**■ Dimensions [mm]**



$\Phi D$	8	10	12.5
P	3.5	5.0	5.0
$\Phi d$	0.6	0.6	0.6
a	1.5	1.5	2.0

**■ Multiplier for Ripple Current**

Freq. (Hz)	120	1K	10K	100K
Factor	0.5	0.8	0.9	1.0

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (m $\Omega$ ,20°C) (100KHz)
6.3V ( 8 )	820	8x11	1230	40
	1000	8x16	1560	31
	1200	8x16	1710	31
	1500	8x20	2040	22
		10x12.5	1760	26
	1800	10x16	2140	20
	2200	10x20	2530	15
	3300	10x23	3110	13
	3900	10x26	3480	13
4700	12.5x26	3810	14	
10V ( 13 )	680	8x14	1230	40
	1000	8x16	1660	31
		10x12.5	1700	29

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (m $\Omega$ ,20°C) (100KHz)
10V ( 13 )	1500	8x20	2150	21
		10x16	2200	21
	1800	10x20	2660	14
	2200	10x23	3000	13
16V ( 20 )	470	8x11	1160	40
	680	8x16	1610	31
		10x12.5	1640	29
	1000	8x20	2160	21
		10x16	2210	21
	1500	10x20	2830	14
	1800	10x23	3300	13
25V ( 33 )	470	10x16	2030	29