

# Snap-In Aluminum Electrolytic Capacitors



MWC Series

MERITEK

## FEATURES

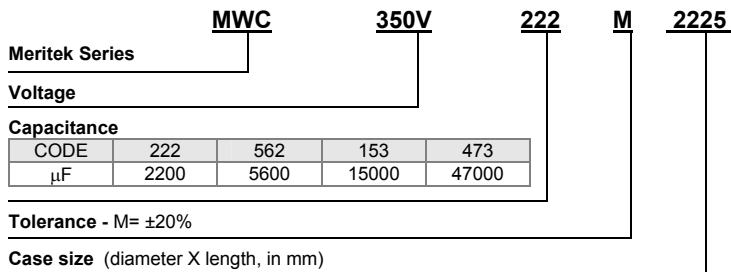
- PCB Mounting, Low profile
- Compact size
- High reliability for continuous operation
- High CV density, high ripple current
- Load life of 2,000 hours at 85°C



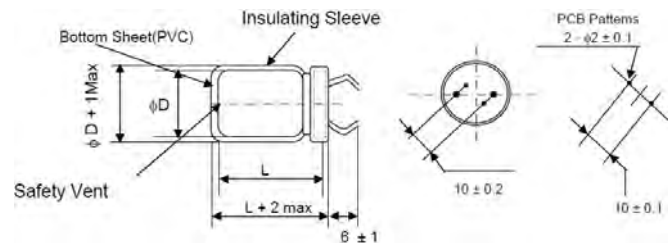
## SPECIFICATIONS

Item	Characteristic						
Operating Temp Range	350V-400V: -25°C to +85°C						
Rated Working Voltage	350 to 400VDC						
Capacitance Tolerance	±20% (M)						
Leakage Current (20°C)	I ≤ 0.02CV or 2mA, whichever is less (at 20°C after 3 minutes) I = Leakage current (μA) C = Nominal capacitance (μF) V = Rated voltage (VDC)						
Dissipation Factor Tanδ (120Hz, 20°C)	<table border="1"> <tr> <td>Tanδ (120Hz, 20°C)</td> <td>350 to 400</td> </tr> <tr> <td></td> <td>0.10</td> </tr> </table>	Tanδ (120Hz, 20°C)	350 to 400		0.10		
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Low Temperature Characteristics	Impedance ratio at 120 Hz <table border="1"> <tr> <td>WV</td> <td>350 to 400</td> </tr> <tr> <td>Z -25°C/Z 20°C</td> <td>6</td> </tr> </table>	WV	350 to 400	Z -25°C/Z 20°C	6		
WV	350 to 400						
Z -25°C/Z 20°C	6						
Load Life	After applying rated working voltage for 2000 hours at 85°C and then being stabilized at +20°C, capacitors shall meet following limits. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial value</td> </tr> <tr> <td>Tanδ</td> <td>≤ ±200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> </tr> </table>	Capacitance change	Within ±20% of the initial value	Tanδ	≤ ±200% of the initial specified value	Leakage current	≤ The initial specified value
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Tanδ	≤ ±200% of the initial specified value						
Leakage current	≤ The initial specified value						
Shelf Life	After storage for 1000 hours at 85 °C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial value</td> </tr> <tr> <td>Tanδ</td> <td>≤ 150% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ ±200% of the initial specified value</td> </tr> </table>	Capacitance change	Within ±20% of the initial value	Tanδ	≤ 150% of the initial specified value	Leakage current	≤ ±200% of the initial specified value
Capacitance change	Within ±20% of the initial value						
Tanδ	≤ 150% of the initial specified value						
Leakage current	≤ ±200% of the initial specified value						

## PART NUMBERING SYSTEM



## DIMENSIONS



## RIPPLE CURRENT COEFFICIENT

### Frequency

Freq (Hz)	50	120	500	1K	10K	100K
WV (V)						
350 to 400	0.80	1.0	1.20	1.25	1.35	1.40

### Temperature

Temperature	≤ 45°C	60°C	70°C	85°C
Factor	1.48	1.30	1.15	1.00

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W.V(V)	350(2V)				400(2G)			
Cap (μF)	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35
82					22x25			
					0.78			
100	22x25				22x30	25x25		
	0.86				0.90	0.90		
120	22x30	25x25			22x35	25x25		
	0.99	0.99			1.02	0.98		
150	22x35	25x30			22x40	25x30	30x25	
	1.14	1.10			1.16	1.14	1.16	
180	22x40	25x30	30x25		22x45	25x35	30x30	35x25
	1.28	1.24	1.24		1.31	1.30	1.44	1.32
220	22x45	25x35	30x30	35x25	22x45	25x40	30x35	35x25
	1.44	1.44	1.44	1.44	1.49	1.47	1.57	1.47
270	22x50	25x40	30x35	35x30	22x50	25x45	30x35	35x30
	1.64	1.63	1.66	1.63	1.64	1.67	1.66	1.69
330		25x50	30x35	35x30		25x50	30x40	35x30
		1.88	1.83	1.87		1.88	1.90	1.87
390			30x40	35x35			30x45	35x35
			2.06	2.03			2.13	2.08
470			30x50	35x40			30x50	35x40
			2.40	2.33			2.40	2.39
560				35x40				35x45
				2.60				2.69
680				35x45				35x50
				2.96				3.04
820				35x50				35x60
				3.04				3.20

$I_R$  : Maxium permissible ripple current [A(rms) at 85°C,120Hz]

Case size [φ DxL (mm)]