

Snap-In Aluminum Electrolytic Capacitors



MUD Series

MERITEK

FEATURES

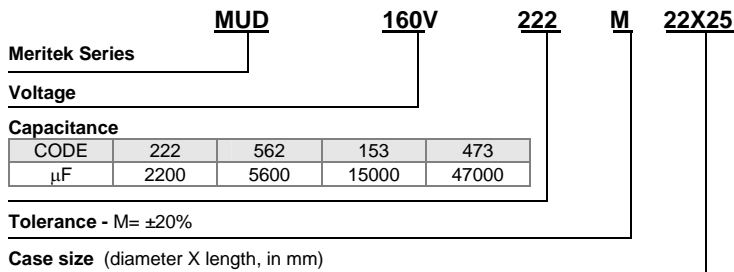
- PCB Mounting, Super low profile
- Lengths are all 20mm, Down size
- High CV density
- Load life of 2,000 hours at 105°C



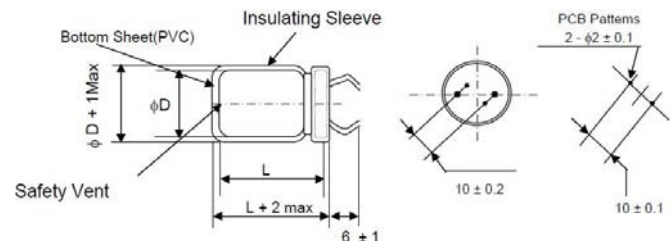
SPECIFICATIONS

Item	Characteristic									
Operating Temp Range	160V-250V: -40°C to +105°C 350V-400V: -25°C to +105°C									
Rated Working Voltage	160 to 400VDC									
Capacitance Tolerance	±20% (M)									
Leakage Current (20°C)	I ≤ 0.02CV or 2mA, whichever is less (at 20°C after 5 minutes) I = Leakage current (μA) C = Nominal capacitance (μF) V = Rated voltage (VDC)									
Dissipation Factor Tanδ (120Hz, 20°C)	Add 0.02 per 100μF for capacitance greater than 100μF <table border="1"> <tr> <td>Tanδ (120Hz, 20°C)</td> <td>160 to 250</td> <td>350 to 400</td> </tr> <tr> <td></td> <td>0.15</td> <td>0.20</td> </tr> </table>	Tanδ (120Hz, 20°C)	160 to 250	350 to 400		0.15	0.20			
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Low Temperature Characteristics	Impedance ratio at 120 Hz <table border="1"> <tr> <td>WV</td> <td>160 to 250</td> <td>350 to 400</td> </tr> <tr> <td>Z -25°C/Z 20°C</td> <td>4</td> <td>8</td> </tr> <tr> <td>Z -40°C/Z 20°C</td> <td>12</td> <td>-</td> </tr> </table>	WV	160 to 250	350 to 400	Z -25°C/Z 20°C	4	8	Z -40°C/Z 20°C	12	-
WV	160 to 250	350 to 400								
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Load Life	After applying rated working voltage for 2000 hours at 105°C and then being stabilized +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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Leakage current	≤ The initial specified value									
Shelf Life	After storage for 1000 hours at 105°C with no voltage applied and then being stabilized +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>≤ The initial specified value</td> </tr> </table>	Capacitance change	Within ±20% of the initial value	Tanδ	≤ 150% of the initial specified value	Leakage current	≤ The initial specified value			
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Tanδ	≤ 150% of the initial specified value									
Leakage current	≤ The initial specified value									

PART NUMBERING SYSTEM



DIMENSIONS



RIPPLE CURRENT COEFFICIENT

Frequency

Freq (Hz)	50	120	1K	10K	100K
160 to 250	0.50	1.0	1.25	1.40	1.50
350 to 400	0.84	1.0	1.15	1.20	1.32

Temperature

Temperature	≤ 45°C	60°C	85°C	105°C
Factor	2.40	2.20	1.65	1.00

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W.V Cap (μF)	160(2C)		200(2D)		250(2E)	
	SIZE	I _R	SIZE	I _R	SIZE	I _R
100					22x20	0.42
150			22x20	0.45	25x20	0.5
180	22x20	0.60			30x20	0.70
220	25x20	0.65	25x20	0.70	30x20	0.85
270	30x20	0.80	30x20	0.90	35x20	1.00
330	30x20	1.00	30x20	1.00	35x20	1.05
390	35x20	1.05	35x20	1.10		
470	35x20	1.30	35x20	1.20		

W.V Cap (μF)	350(2V)		400(2G)	
	SIZE	I _R	SIZE	I _R
56			25x20	0.30
68	22x20	0.35	25x20	0.40
82	25x20	0.40	30x20	0.45
100	25x20	0.43	30x20	0.48
120	30x20	0.46	35x20	0.53
150	35x20	0.50	35x20	0.55

I_R: Maximum Permissible Ripple Current [A(rms) at 105°C, 120Hz]