

Snap-In Aluminum Electrolytic Capacitors



MHT Series

MERITEK

FEATURES

- PCB Mounting
- Very compact size (Smaller than MHS)
- High CV density
- Load life of 3000 hours at 85°C



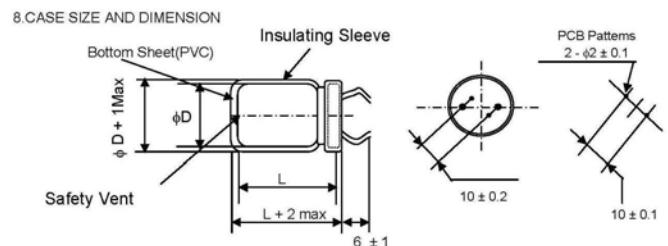
SPECIFICATIONS

Item	Characteristic											
Operating Temp Range	160V-250V: -40°C to +85°C 350V-450V: -25°C to +85°C											
Rated Working Voltage	160 to 450VDC											
Capacitance Tolerance	±20% (M)											
Leakage Current (20°C)	I≤0.02CV or 2mA, whichever is less (at 20°C after 5 minutes) I=DC Leakage current (μA) C= Nominal capacitance (μF) V= Rated voltage (VDC)											
Dissipation Factor Tanδ (120Hz, 20°C)	<table><tr><td rowspan="2">Tanδ (120Hz, 20°C)</td><td>160 to 250</td><td>350 to 450</td></tr><tr><td>0.15</td><td>0.20</td></tr></table>			Tanδ (120Hz, 20°C)	160 to 250	350 to 450	0.15	0.20				
Tanδ (120Hz, 20°C)	160 to 250	350 to 450										
	0.15	0.20										
Low Temperature Characteristics	Impedance ratio at 120 Hz <table><tr><td>WV</td><td>160 to 250</td><td>350 to 450</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 450	Z -25°C/Z 20°C	4	8	Z -40°C/Z 20°C	12	-
WV	160 to 250	350 to 450										
Z -25°C/Z 20°C	4	8										
Z -40°C/Z 20°C	12	-										
Load Life	After applying rated working voltage for 3000 hours at 85°C and then being stabilized at +20°C, capacitors shall meet following limits. <table><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			
Capacitance change	Within ±20% of the initial value											
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><tr><td>Capacitance change</td><td>Within ±15% 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 ±15% of the initial value	Tanδ	≤ 150% of the initial specified value	Leakage current	≤ The initial specified value			
Capacitance change	Within ±15% of the initial value											
Tanδ	≤ 150% of the initial specified value											
Leakage current	≤ The initial specified value											

PART NUMBERING SYSTEM

Meritek Series	MHT	160V	222	M	22X25
Voltage					
Capacitance					
CODE	222	562	153	473	
μF	2200	5600	15000	47000	
Tolerance - M= ±20%					
Case size (diameter X length, in mm)					

DIMENSIONS



D = φ 22~ 35

RIPPLE CURRENT COEFFICIENT

Frequency

WV (V) \ Freq (Hz)	50	120	300	1K	10K	100K
160 to 250	0.82	1.0	1.20	1.37	1.45	1.50
350 to 450	0.82	1.0	1.18	1.23	1.35	1.40

Temperature

Temperature	≤ 45°C	60°C	70°C	85°C
Factor	1.40	1.30	1.15	1.0

Snap-In Aluminum Electrolytic Capacitors



MHT Series

MERITEK

W.V(V) Cap (μF)	160(2C)				200(2D)				250(2E)			
	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35
180									22x25 1.05			
220									22x25 1.15			
270					22x25 1.31				22x30 1.34	25x25 1.36		
330					22x30 1.52	25x25 1.52			22x35 1.55	25x30 1.55		
390	22x25 1.43				22x35 1.68	25x30 1.68			22x40 1.78	25x30 1.78	30x25 1.76	
470	22x30 1.73	25x25 1.76			22x40 2.10	25x30 1.94			22x45 2.05	25x35 2.05	30x30 2.00	
560	22x35 2.04	25x30 2.04	30x25 2.04		22x45 2.41	25x35 2.15	30x25 2.15			25x40 2.25	30x30 2.20	35x25 2.25
680	22x40 2.26	25x30 2.26	30x25 2.26		22x50 2.78	25x40 2.46	30x30 2.41			25x45 2.57	30x35 2.57	35x30 2.57
820	22x45 2.65	25x35 2.65	30x30 2.65			25x45 2.83	30x35 2.83	35x25 2.78			30x40 2.88	35x35 2.88
1000	22x50 2.94	25x40 2.94	30x35 2.96	35x25 2.96		25x50 3.17	30x40 3.17	35x30 3.15			30x45 3.45	35x40 3.45
1200		25x45 3.36	30x35 3.41	35x30 3.41			30x45 3.62	35x35 3.62				35x45 3.67
1500			30x40 3.83	35x35 3.88			30x50 3.62	35x40 4.09				35x50 4.20
1800			30x50 4.41	35x40 4.41				35x45 4.67				
2200				35x45 4.98				35x50 5.20				
2700				35x50 5.67				35x70 5.69				

W.V(V) Cap (μF)	350(2V)				400(2G)				450(2W)			
	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35
56									22x25 0.59			
68									22x25 0.65			
82					22x25 0.68				22x30 0.76	25x25 0.76		
100	22x25 0.74				22x30 0.84	25x25 0.84			22x35 0.87	25x30 0.87	30x25 0.87	
120	22x30 0.89	25x25 0.89			22x30 1.08	25x25 1.08			22x40 1.10	25x30 1.10	30x30 1.10	
150	22x35 1.05	25x25 1.05			22x35 1.15	25x30 1.15	30x25 1.15		22x45 1.18	25x35 1.15	30x30 1.18	
180	22x35 1.36	25x30 1.20	30x25 1.20		22x40 1.26	25x35 1.26	30x25 1.26			25x40 1.30	30x35 1.28	
220	22x40 1.36	25x35 1.36	30x30 1.36		22x45 1.42	25x40 1.40	30x30 1.42			25x45 1.47	30x40 1.47	35x30 1.45
270	22x50 1.63	25x40 1.63	30x30 1.63			25x45 1.65	30x35 1.63	35x30 1.65			30x45 1.76	35x35 1.76
330		25x45 1.78	30x35 1.78	35x30 1.78		25x50 1.85	30x40 1.85	35x30 1.84			30x50 2.00	35x40 2.00
390		25x50 2.05	30x40 2.05	35x35 2.05			30x45 2.10	35x35 2.10				35x45 2.20
470			30x45 2.42	35x35 2.42			30x50 2.44	35x40 2.44				35x50 2.50
560			30x50 2.67	35x40 2.67				35x45 2.73				
680				35x45 2.95				35x50 3.05				

I_p : Maxium permissible ripple current [A(rms) at 85°C,120Hz]
Case size [φ DxL (mm)]