Snap-In Aluminum Electrolytic Capacitors

RoHS

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)	Tanδ (120Hz, 20°C): 160 to 250 = 0.15; 350 to 450 = 0.20
Low Temperature Characteristics	Impedance ratio at 120 Hz 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. 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. Capacitance change: Within ±15% of the initial value Tanδ: ≤ 150% of the initial specified value Leakage current: ≤ The initial specified value

PART NUMBERING SYSTEM

MHT 160V 222 M 22X25

Meritek Series

Voltage

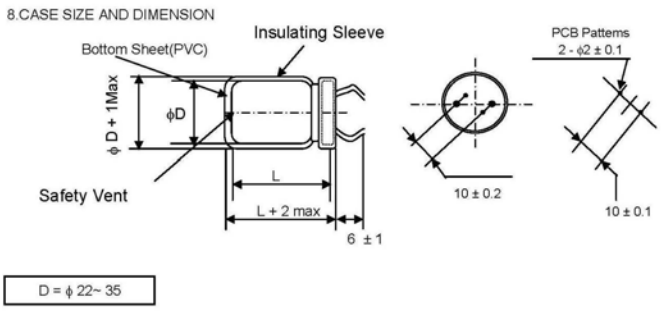
Capacitance

CODE	222	562	153	473
μF	2200	5600	15000	47000

Tolerance - M= ±20%

Case size (diameter X length, in mm)

DIMENSIONS



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

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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				22x30	25x25		
					1.31				1.34	1.36		
330					22x30	25x25			22x35	25x30		
					1.52	1.52			1.55	1.55		
390	22x25				22x35	25x30			22x40	25x30	30x25	
	1.43				1.68	1.68			1.78	1.78	1.76	
470	22x30	25x25			22x40	25x30			22x45	25x35	30x30	
	1.73	1.76			2.10	1.94			2.05	2.05	2.00	
560	22x35	25x30	30x25		22x45	25x35	30x25			25x40	30x30	35x25
	2.04	2.04	2.04		2.41	2.15	2.15			2.25	2.20	2.25
680	22x40	25x30	30x25		22x50	25x40	30x30			25x45	30x35	35x30
	2.26	2.26	2.26		2.78	2.46	2.41			2.57	2.57	2.57
820	22x45	25x35	30x30			25x45	30x35	35x25			30x40	35x35
	2.65	2.65	2.65			2.83	2.83	2.78			2.88	2.88
1000	22x50	25x40	30x35	35x25		25x50	30x40	35x30			30x45	35x40
	2.94	2.94	2.96	2.96		3.17	3.17	3.15			3.45	3.45
1200		25x45	30x35	35x30			30x45	35x35				35x45
		3.36	3.41	3.41			3.62	3.62				3.67
1500			30x40	35x35			30x50	35x40				35x50
			3.83	3.88			3.62	4.09				4.20
1800			30x50	35x40				35x45				
			4.41	4.41				4.67				
2200				35x45				35x50				
				4.98				5.20				
2700				35x50				35x70				
				5.67				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				22x30	25x25		
					0.68				0.76	0.76		
100	22x25				22x30	25x25			22x35	25x30	30x25	
	0.74				0.84	0.84			0.87	0.87	0.87	
120	22x30	25x25			22x30	25x25			22x40	25x30	30x30	
	0.89	0.89			1.08	1.08			1.10	1.10	1.10	
150	22x35	25x25			22x35	25x30	30x25		22x45	25x35	30x30	
	1.05	1.05			1.15	1.15	1.15		1.18	1.15	1.18	
180	22x35	25x30	30x25		22x40	25x35	30x25			25x40	30x35	
	1.36	1.20	1.20		1.26	1.26	1.26			1.30	1.28	
220	22x40	25x35	30x30		22x45	25x40	30x30			25x45	30x40	35x30
	1.36	1.36	1.36		1.42	1.40	1.42			1.47	1.47	1.45
270	22x50	25x40	30x30			25x45	30x35	35x30			30x45	35x35
	1.63	1.63	1.63			1.65	1.63	1.65			1.76	1.76
330		25x45	30x35	35x30		25x50	30x40	35x30			30x50	35x40
		1.78	1.78	1.78		1.85	1.85	1.84			2.00	2.00
390		25x50	30x40	35x35			30x45	35x35				35x45
		2.05	2.05	2.05			2.10	2.10				2.20
470			30x45	35x35			30x50	35x40				35x50
			2.42	2.42			2.44	2.44				2.50
560			30x50	35x40				35x45				
			2.67	2.67				2.73				
680				35x45				35x50				
				2.95				3.05				

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