



RoHS

MHD Series

MERITEK

FEATURES

- PCB Mounting
- More compact electronic equipment
- Lengths are all 20mm, Down size
- Load life of 2,000 hours at 85°C

SPECIFICATIONS

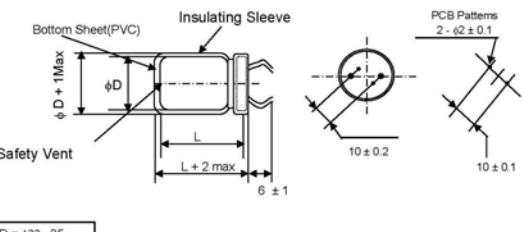


Item	Characteristic											
Operating Temp Range	160V-250V: -40°C to +85°C 350V-400V: -25°C to +85°C											
Rated Working Voltage	160 to 400VDC											
Capacitance Tolerance	±20% (M)											
Leakage Current (20°C)	$I \leq 0.02CV$ or 2mA, whichever is less (at 20°C after 5 minutes) I = Leakage current (μ A) C = Nominal capacitance (μ F) V = Rated voltage (VDC)											
Dissipation Factor Tanδ (120Hz, 20°C)	Tanδ (120Hz, 20°C)	160 to 250	350 to 400									
		0.10	0.20									
Low Temperature Characteristics	Impedance ratio at 120 Hz <table border="1"><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	-
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Z -40°C/Z 20°C	12	-										
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>Dissipation</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	Dissipation	≤ ±200% of the initial specified value	Leakage current	≤ The initial specified value			
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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 ±15% of the initial value</td></tr><tr><td>Dissipation</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	Dissipation	≤ 150% of the initial specified value	Leakage current	≤ The initial specified value			
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PART NUMBERING SYSTEM

MHD	160V	222	M	2225
Meritek Series				
Voltage				
Capacitance				
CODE	222	562	153	473
μ F	2200	5600	15000	47000
Tolerance - M= ±20%				
Case size (diameter X length, in mm)				

DIMENSIONS



RIPPLE CURRENT COEFFICIENT

Frequency

Freq (Hz)	50	120	500	1K	10K	100K
WV (V)	0.82	1.0	1.20	1.37	1.45	1.50
160 to 250	0.82	1.0	1.18	1.23	1.35	1.40

Temperature

Temperature	≤ 45°C	60°C	70°C	85°C
Factor	1.45	1.30	1.15	1.00



W.V(V)	160(2C)				200(2D)				250(2E)				
	Cap (μ F)	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 22	ϕ 25	ϕ 30	ϕ 35
100										22x20			
										0.65			
150					22x20						30x20		
					0.75						0.87		
220	22x20					25x20					30x20		
	0.85					0.95					1.10		
270		25x20					30x20					35x20	
		1.10					1.25					1.28	
330			30x20				30x20					35x20	
			1.20				1.40					1.45	
390			30x20					35x20					
			1.35					1.60					
470				35x20				35x20					
				1.50				1.80					
560				35x20									
				1.65									

W.V(V)	350(2V)				400(2G)				
	Cap (μ F)	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 22	ϕ 25	ϕ 30	ϕ 35
47					22x20				
					0.35				
56						25x20			
						0.40			
68						25x20			
						0.46			
82						25x20			
						0.60			
100	25x20						30x20		
	0.70						0.72		
120	25x20							35x20	
	0.75							0.80	
150		30x20						35x20	
		0.80						0.86	
180			35x20					35x20	
			0.87					0.92	

I_R : Maximum permissible ripple current [A(rms) at 105°C, 120Hz]

Case size [ϕ DxL (mm)]