Snap-In Aluminum Electrolytic Capacitors

MUY Series

MERITEK

RoHS

FEATURES

- PCB Mounting
- Super low profile (Smaller than MUX)
- More compact electronic equipment. 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-450V: -25°C to +105°C
Rated Working Voltage	160 to 450VDC
Capacitance Tolerance	±20% (M)
Leakage Current (20°C)	I≤0.02CV or 5mA, 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)	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 2000 hours at 105°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 105 °C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits. Capacitance change: Within ±20% of the initial value Tanδ: ≤ 150% of the initial specified value Leakage current: ≤ The initial specified value

PART NUMBERING SYSTEM

MUY 160V 222 M 2225

Meritek Series

Voltage

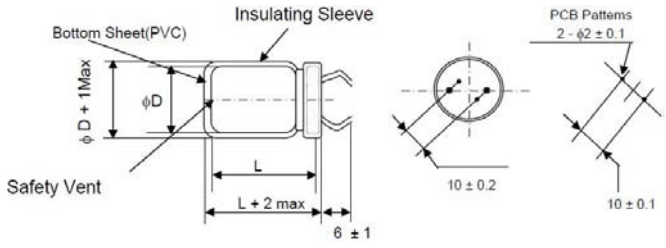
Capacitance

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	1K	10K	100K
160 to 250	0.80	1.0	1.25	1.40	1.50
350 to 450	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(V) / Cap (μF)	160(2C)					200(2D)					250(2E)				
	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
220											20x35	22x25			
											1.00	1.00			
270						20x30					20x35	22x30	25x25		
						0.90					1.20	1.18	1.18		
330	20x30					20x35	22x25				20x40	22x35	25x25	30x25	
	1.10					1.20	1.20				1.18	1.30	1.30	1.30	
390	20x35	22x25				20x40	22x30	25x25			20x50	22x40	25x30	30x25	
	1.19	1.27				1.40	1.37	1.37			1.49	1.49	1.49	1.49	
470	20x35	22x30	25x25			20x40	22x35	25x30	30x25			22x45	25x35	30x30	35x25
	1.50	1.50	1.50			1.50	1.50	1.50	1.50			1.65	1.65	1.65	1.65
560	20x40	22x35	25x30	30x25		20x45	22x40	25x35	30x30			22x50	25x40	30x35	35x30
	1.65	1.60	1.60	1.60		1.70	1.67	1.67	1.67			1.75	1.75	1.75	1.75
680	20x45	22x40	25x30	30x25			22x45	25x40	30x30	35x25			25x45	30x35	35x30
	1.82	1.82	1.82	1.82			1.78	1.78	1.78	1.78			2.00	2.00	2.00
820		22x45	22x35	30x30	35x25		22x50	25x45	30x35	35x30				30x45	35x35
		2.04	2.04	2.04	2.04		2.00	2.04	2.04	2.04				2.20	2.20
1000		22x50	25x40	30x35	35x30			25x50	30x40	35x35				30x45	35x40
		2.25	2.25	2.25	2.25			2.30	2.30	2.30				2.47	2.47
1200			25x45	30x40	35x30				30x45	35x40					35x45
			2.50	2.50	2.50				2.65	2.65					2.85
1500				30x45	35x35					35x45					
				2.85	2.84					3.08					
1800					35x40					35x50					
					3.00					3.48					
2200					35x45										
					3.50										

W.V(V) / Cap (μF)	350(2V)					400(2G)					450(2W)				
	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
56											20x30				
											0.50				
68						20x30					20x35	22x25			
						0.48					0.50	0.53			
82	20x30					20x30	22x25				20x40	22x30	25x25		
	0.52					0.64	0.64				0.56	0.64	0.64		
100	20x30	22x25				20x35	22x30				20x45	22x30	25x30	30x25	
	0.60	0.75				0.72	0.70				0.64	0.69	0.69	0.64	
120	20x35	22x30	25x25			20x40	22x30	25x25			20x50	22x35	25x30	30x25	
	0.70	0.82	0.75			0.76	0.75	0.75			0.74	0.80	0.80	0.80	
150	20x40	22x35	25x30			20x45	22x35	25x30	30x25			22x40	25x35	30x30	
	0.78	0.88	0.83			0.88	0.88	0.88	0.88			0.88	0.88	0.88	
180	20x45	22x40	25x30	30x25			22x40	25x35	30x30			22x45	25x40	30x35	35x25
	0.92	0.92	0.92	0.92			0.98	0.98	0.98			1.00	1.00	1.00	1.00
220		22x45	25x35	30x30			22x45	25x40	30x35	30x25			25x45	30x40	35x30
		1.05	1.05	1.02			1.10	1.10	1.10	1.10			1.12	1.12	1.12
270		22x50	25x40	30x35	35x25			25x45	30x35	35x30			25x50	30x45	35x35
		1.18	1.18	1.18	1.20			1.22	1.22	1.22			1.25	1.28	1.28
330			25x45	30x35	35x30			25x50	30x40	35x35				30x50	35x40
			1.30	1.35	1.22			1.44	1.44	1.43				1.45	1.45
390			25x50	30x40	35x30				30x45	35x35				30x50	35x45
			1.52	1.52	1.52				1.51	1.50				1.50	1.55
470				30x45	35x35				30x50	35x40					35x50
				1.65	1.65				1.90	1.90					1.85
560					35x40					35x45					35x60
					1.90					2.12					2.30
680					35x45					35x50					
					2.00					2.35					

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

Case size [ϕ DxL (mm)]