Snap-In Aluminum Electrolytic Capacitors

MUD Series

MERITEK

RoHS

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)	Tanδ (120Hz, 20°C): 160 to 250 = 0.15; 350 to 400 = 0.20
Low Temperature Characteristics	Impedance ratio at 120 Hz WV: 160 to 250 / 350 to 400 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

MUD 160V 222 M 22X25

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Voltage

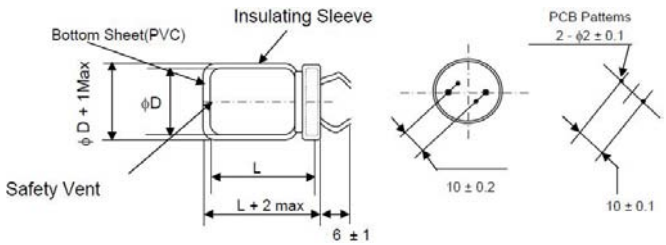
Capacitance

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

Freq (Hz) / WV (V)	50	120	1K	10K	100K
160 to 250	0.80	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]