Lumimax Optoelectronic Tech.

SMD Aluminum Electrolytic Capacitors

SMDGP (RVT) Series 貼片型鋁電解電容器



Marking color : Black

Features:

- 105 °C standard, Load life=2000 hours
- Designed for surface mounting on high density PC board
- Designed for reflow soldering process
- General purpose applications, RoHS compliant

Specifications:

Category temperature range	-55°C ~ 105 °C
Capacitance tolerance	±20% (120Hz / +20 °C)
Leakage current	I ≤ 0.01 CV or 3μA whichever is greater (after 2 minutes)
Resistance to soldering heat	After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits. (1) Capacitance change: within ±10% of the initial value. (2) Dissipation factor: within the initial limit. (3) Leakage current: within the initial limit.
Shelf Life	After storage for 1000 hours at +105 °C ± 2°C with no voltage applied and then being stabilized at + 20 °C, capacitors shall meet the limits specified in endurance.
Endurance	After applying rated working voltage for 2000 hours at +105 °C ± 2°C, and then being stabilized at +20 °C, capacitors shall meet the following limits. (1) Capacitance change: ϕD ≤6.3mm: within ± 25% of the initial value. ϕD ≥8mm: within ± 20% of the initial value. (2) Dissipation factor: ϕD ≤6.3mm: less than 300% of the initial value. ϕD ≥8mm: less than 200% of the initial value.
Characteristics at low temp.	Impedance ratio at 120Hz

Rated voltage	6.3	10	16	25	35	50	63	100
Z (-25°C)/ Z (+20°C)	4	4	3	2	2	2	2	3
Z (-55°C)/ Z (+20°C)	12	8	6	4	3	3	3	4

Frequency Correction factor for ripple current

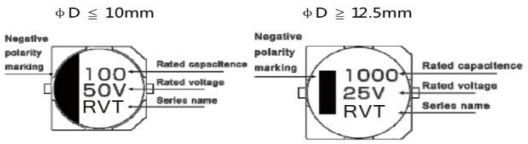
Frequency	50Hz	120Hz	1kHz	10kHz
C ≤1000 μF	0.7	1.0	1.2	1.3
C >1000 μF	0.8	1.0	1.1	1.2

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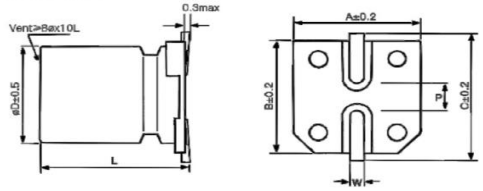
Lumimax Part #	Capacitance	Tolerance	Voltage - Rated	Ripple Current @ Low Frequency	Size / Dimension (D)
AEC-SMD-0.47UF-50V	0.47uF	±20%	50V	8 mA @ 120 Hz	0.157" Dia (4.00mm)
AEC-SMD-1UF-50V	1uF	±20%	50V	8 mA @ 120 Hz	0.157" Dia (4.00mm)
AEC-SMD-2.2UF50V	2.2uF	±20%	50V	12 mA @ 120 Hz	0.157" Dia (4.00mm)
AEC-SMD-4.7UF-50V	4.7uF	±20%	50V	14 mA @ 120 Hz	0.157" Dia (4.00mm)
AEC-SMD-10UF-50V	10uF	±20%	50V	32 mA @ 120 Hz	0.248" Dia (6.30mm)
AEC-SMD-22UF-50V	22uF	±20%	50V	38 mA @ 120 Hz	0.248" Dia (6.30mm)
AEC-SMD-47UF-50V	47uF	±20%	50V	60 mA @ 120 Hz	0.248" Dia (6.30mm)
AEC-SMD-100UF-35V	100uF	±20%	35V	85 mA @ 120 Hz	0.248" Dia (6.30mm)
AEC-SMD-220UF-25V	220uF	±20%	25V	180 mA @ 120 Hz	0.248" Dia (6.30mm)
AEC-SMD-470UF-25V	470uF	±20%	25V	280 mA @ 120 Hz	0.315" Dia (8.00mm)
AEC-SMD-1000UF-25V	1000uF	±20%	25V	580 mA @ 120 Hz	0.394" Dia (10.00mm)

Lumimax Part #	Height (L) - Seated (Max)	Surface Mount Land Size (A x B)
AEC-SMD-0.47UF-50V	0.212" (5.40mm)	0.169" L x 0.169" W (4.30mm x 4.30mm)
AEC-SMD-1UF-50V	0.212" (5.40mm)	0.169" L x 0.169" W (4.30mm x 4.30mm)
AEC-SMD-2.2UF50V	0.212" (5.40mm)	0.169" L x 0.169" W (4.30mm x 4.30mm)
AEC-SMD-4.7UF-50V	0.212" (5.40mm)	0.169" L x 0.169" W (4.30mm x 4.30mm)
AEC-SMD-10UF-50V	0.212" (5.40mm)	0.260" L x 0.260" W (6.60mm x 6.60mm)
AEC-SMD-22UF-50V	0.212" (5.40mm)	0.260" L x 0.260" W (6.60mm x 6.60mm)
AEC-SMD-47UF-50V	0.303" (7.70mm)	0.260" L x 0.260" W (6.60mm x 6.60mm)
AEC-SMD-100UF-35V	0.303" (7.70mm)	0.260" L x 0.260" W (6.60mm x 6.60mm)
AEC-SMD-220UF-25V	0.303" (7.70mm)	0.260" L x 0.260" W (6.60mm x 6.60mm)
AEC-SMD-470UF-25V	0.402" (10.20mm)	0.327" L x 0.327" W (8.30mm x 8.30mm)
AEC-SMD-1000UF-25V	0.413" (10.5mm)	0.406" L x 0.406" W (10.30mm x 10.30mm)

Marking :



Dimensions :



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LUMIMAX OPTOELECTRONIC TECHNOLOGY:

KNP3W1RJTB SM8S33A MF1W2RFTB MF1/8W51KFTB SMAJ440A 1.5KE6.8A BC547B MF1W22RFTB 1.5KE15CA 1N4747A 1N4753A MF1/8W1MFT 1.5KE120A 1N4731A MF1/2W6K8FTB MF1W3R3FTB SM8S22CA 1.5KE22CA DB105 KNP3W4R7JTB CF1W20KJTB 1N4732A P6KE15A S1G CF1/2W68KJTB 1N5822-T SMAJ85A 1.5KE33A SM8S36CA SMDJ90CA