



SMD ALUMINUM CAPACITORS

146 CTI



125 °C, Low Impedance, High Ripple Current, SMD Aluminum Capacitors

KEY BENEFITS

- Soldering heat resistant according to IPC/JEDEC J-STD-020
- Low impedance down to 0.035Ω at 20 °C, 100 kHz
- High ripple current: up to 1.75 A at 125 °C, 100 kHz
- Long useful life: up to 6000 hours at 125 °C
- AEC-Q200 qualified

APPLICATIONS

- Industrial, for example:
 - machinery/automation
 - motion control, drives
 - SMPS for energy saving applications
 - equipment for renewable energy
- Automotive, for example:
 - engine management
 - injection, valve control
 - E(H)PS
 - ABS/ESP, E-brake
 - active suspension

125 °C, Low Impedance, High Ripple Current, SMD Aluminum Capacitors

FEATURES

- Polarized aluminum electrolytic capacitors, non-solid electrolyte, self healing
- SMD-version with base plate, lead (Pb)-free reflow solderable
- Charge and discharge proof, no peak current limitation
- High temperature reflow soldering according to JEDEC J-STD-020
- Compliant to RoHS directive 2002/95/EC
- Vibration proof, 4-pin version and 6-pin version
- AEC-Q200 qualified



RoHS COMPLIANT

APPLICATIONS

- SMD technology, for high temperature reflow soldering
- Industrial and professional applications
- Automotive, general industrial, telecom
- Smoothing, filtering, buffering

MARKING

- Rated capacitance (in μF)
- Rated voltage (in V)
- Date code, in accordance with IEC 60062
- Black mark or '·' sign indicating the cathode (the anode is identified by bevelled edges)
- Code indicating group number (T)

PACKAGING

Supplied in blister tape on reel

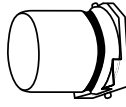
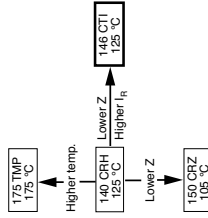


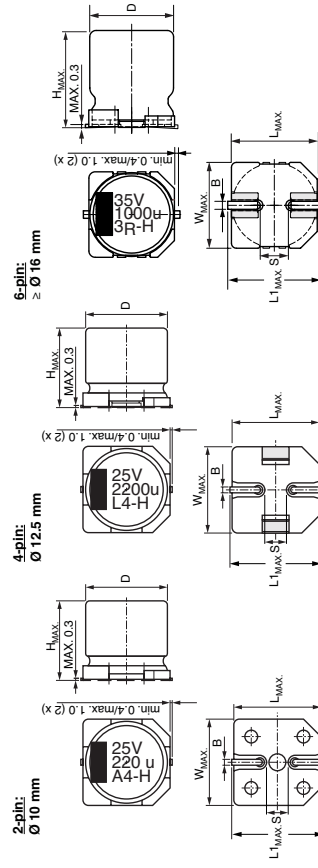
Fig. 1 Component outline



DESCRIPTION	VALUE
Nominal case sizes (L x W x H in mm)	10 x 10 x 10 to 18 x 18 x 21
Rated capacitance range, C_R	22 μF to 4700 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	16 V to 63 V
Category temperature range	-55 °C to +125 °C
Endurance test at 125 °C	1000 h to 5000 h
Useful life at 125 °C	1500 h to 6000 h
Useful life at 40 °C	150 000 h to 400 000 h
1.8 x I _h applied.	
Shelf life at 0 V, 125 °C	1000 h
Based on sectional specification	IEC 60384-18/CECC 32300
Climatic category IEC 60068	55/125/56

Revision 19-Jul-10

SELECTION CHART FOR C _R , U _R AND RELEVANT NOMINAL CASE SIZES (L x W x H in mm)						
C _R (μF)	U _R (V)	16	25	35	50	63
22	→	→	→	→	→	10 x 10 x 10
33	→	→	→	→	→	10 x 10 x 10
47	→	→	→	→	→	10 x 10 x 10
68	→	→	→	→	→	10 x 10 x 10
100	→	→	→	→	→	10 x 10 x 10
150	→	→	→	→	→	10 x 10 x 10
220	→	→	→	→	→	10 x 10 x 10
330	→	→	→	→	→	10 x 10 x 10
470	→	→	→	→	→	10 x 10 x 10
680	→	→	→	→	→	10 x 10 x 10
820	→	→	→	→	→	10 x 10 x 10
1000	→	→	→	→	→	10 x 10 x 10
1200	→	→	→	→	→	10 x 10 x 10
1500	→	→	→	→	→	10 x 10 x 10
1800	→	→	→	→	→	10 x 10 x 10
2200	→	→	→	→	→	10 x 10 x 10
2700	→	→	→	→	→	10 x 10 x 10
3300	→	→	→	→	→	10 x 10 x 10
3900	→	→	→	→	→	10 x 10 x 10
4700	→	→	→	→	→	10 x 10 x 10



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