



ALUMINUM CAPACITORS

153 CRV SMD



SMD Aluminum Capacitor

KEY BENEFITS

- Voltages to 100 V
- Capacitance to 1000 μ F
- Long useful life: 2000 to 3000 hours at 105 °C
- RoHS compliant
- Solderable under “lead (Pb)-free” soldering conditions

APPLICATIONS

- Filtering
- Smoothing
- Buffering
- Decoupling
- General industrial, telecom, and automotive equipment

Datasheet is available on our web site at www.vishay.com
for 153 CRV SMD - <http://www.vishay.com/doc?28388>

Aluminum Capacitors SMD (Chip) Long-Life Vertical

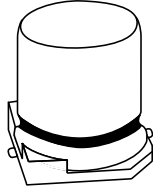
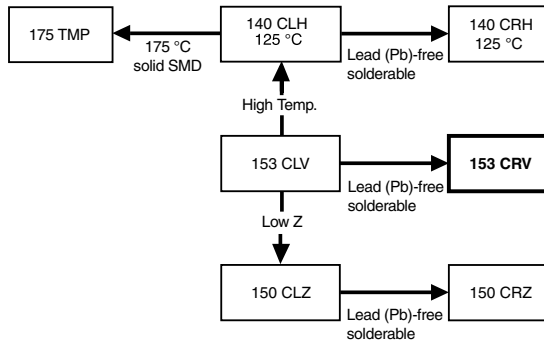


Fig.1 Component outline.


QUICK REFERENCE DATA

DESCRIPTION	VALUE
Nominal case sizes (L × W × H in mm)	4.0 × 4.0 × 5.3 to 10 × 10 × 14
Rated capacitance range, C _R	0.47 to 1000 μF
Tolerance on C _R	± 20 %
Rated voltage range, U _R	6.3 to 100 V
Category temperature range	- 55 to + 105 °C
Endurance test at 105 °C:	
case sizes 4.0 × 4.0 × 5.3 to 6.3 × 6.3 × 5.3	1000 hours
case sizes 8.0 × 8.0 × 6.5 to 10 × 10 × 14	2000 hours
Useful life at 105 °C:	
case sizes 4.0 × 4.0 × 5.3 to 6.3 × 6.3 × 5.3	2000 hours
case sizes 8.0 × 8.0 × 6.5 to 10 × 10 × 14	3000 hours
Useful life at 40 °C; 1.3 × I _R applied:	
case sizes 4.0 × 4.0 × 5.3 to 6.3 × 6.3 × 5.3	200 000 hours
case sizes 8.0 × 8.0 × 6.5 to 10 × 10 × 14	300 000 hours
Shelf life at 0 V, 105 °C	1000 hours
Based on sectional specification	IEC 60384-18/ CECC 32300
Climatic category IEC 60068	55/105/56

Revision 06-Jun-07

FEATURES

- Polarized aluminum electrolytic capacitors, non-solid electrolyte, self healing
- SMD-version with base plate, vertical construction requiring minimum board space, lead (Pb)-free reflow solderable
- High CV per unit volume
- Long useful life: 2000 to 3000 hours at 105 °C
- Charge and discharge proof, no peak current limitation
- Supplied in blister tape on reel
- Lead (Pb)-free and RoHS compliant
- ATTENTION: for maximum safe soldering conditions refer to Fig.4


**RoHS
COMPLIANT**
APPLICATIONS

- SMD technology, in compliance with RoHS
- Coupling, decoupling, smoothing, filtering, buffering, timing
- Telecommunications, general industrial, EDP, automotive, portable and lightweight equipment

MARKING

- Rated capacitance (in μF)
- Rated voltage (in V)
- Date code
- Black mark or '–' sign indicating the cathode (the anode is identified by bevelled edges)

PACKAGING

Supplied in blister tape on reel

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