

RoHS Compliant Mini-TurboCap™



Small Footprint, High Volumetric Efficiency, High-CV SMPS Capacitors



The RoHS Compliant Mini-TurboCap™ is constructed from state-of-the-art BME (Base Metal Electrode) MLC Capacitors achieving very high CV, as well as, ultra low ESR and ESL. The resulting, very large capacitance values allow for component and board space reduction. Stress relieving lead frames provide effective mechanical decoupling of the ceramic chips from the board, minimizing the stress created by board flexing, vibration and temperature cycling. High temperature solder is used to attach chips to the lead frame thus eliminating the risk of solder reflow during assembly to the board.

CAPACITANCE RANGE

Style	VOLTAGE	
	50V	100V
RT10	18 μ F	8.2 μ F

HOW TO ORDER

RT10	5	C	186	M	A	K	02
AVX Style	Voltage 50V = 5 100V = 1	Temperature Coefficient X7R = C	Capacitance Code (2 significant digits + no. of zeros) 1 μ F = 105 10 μ F = 106	Capacitance Tolerance M = \pm 20%	Test Level A = Standard	Termination N = Straight Lead K = Leads formed in M = Leads formed out	Number of Leads Per Side 02 = 2

ELECTRICAL SPECIFICATIONS

Temperature Coefficient

\pm 15%, -55° to +125°C

Capacitance Test (MIL-STD-202, Method 305)

25°C, 1.0 \pm 0.2 Vrms (open circuit voltage) at 1KHz

Dissipation Factor

5% Max @ 25°C, for 50VDC and 100VDC voltage ratings

Insulation Resistance 25°C (MIL-STD-202, Method 302)

500 M Ω - μ F

Insulation Resistance 125°C (MIL-STD-202, Method 302)

50 M Ω - μ F

Dielectric Withstanding Voltage 25°C (Flash Test)

250% rated voltage for 5 seconds with 50 mA max charging current.

Life Test Capabilities (1000 hrs)

150% rated voltage at +125°C.

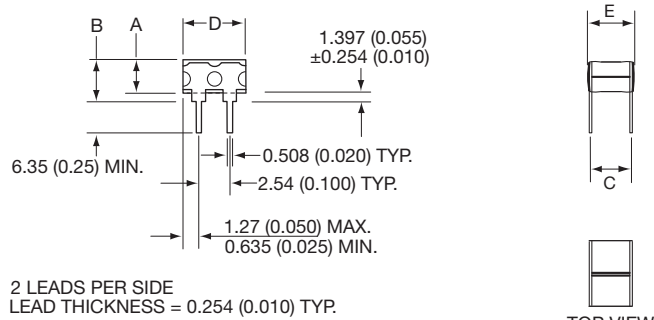


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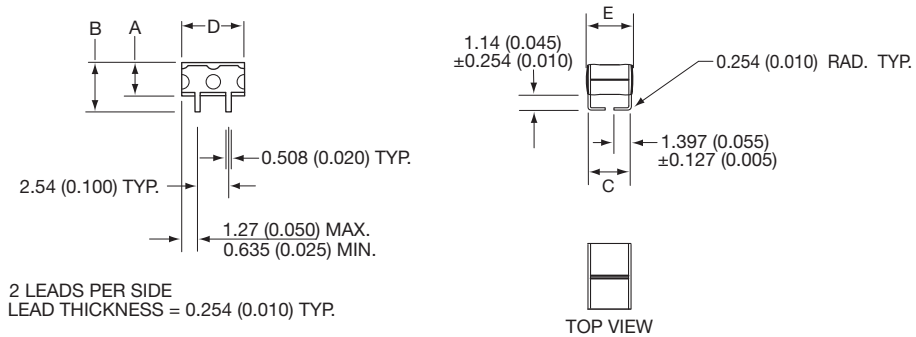


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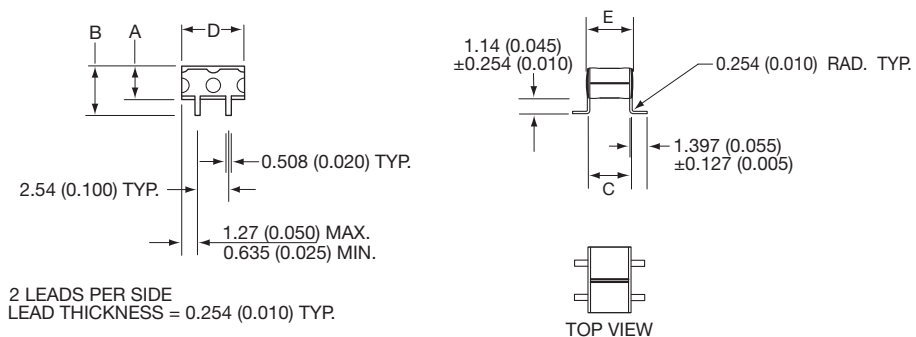
STYLE/DIMENSIONS



"N" STYLE LEADS



"K" STYLE LEADS



"M" STYLE LEADS

DIMENSIONS

millimeters (inches)

Style	A (max.)	B (max.)	C ± 0.635 (± 0.025)	D ± 0.635 (± 0.025)	E (max.)	No. of Leads Per Side
RT10	5.59 (0.220)	7.00 (0.275)	3.81 (0.150)	5.33 (0.210)	4.83 (0.190)	02

