Mini-TurboCap™

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



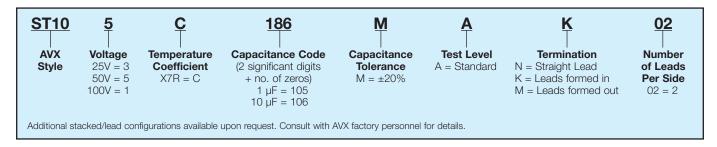
The Mini-TurboCap is constructed from state-of-the-art BME (Base Metal Electrode) MLC Capacitors achieving very high CV, as well as, ultra low ESR and ESL. The resulting, very large capacitance values allow for component and board space reduction. Stress relieving lead frames provide effective mechanical 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 (µF)

Voltage						
Cap (µF)	25 V	50V	100V			
8.2						
18						
39*						
82*						

Not RoHS Compliant

HOW TO ORDER



ELECTRICAL SPECIFICATIONS

Temperature Coefficient

±15%, -55° to +125°C

Capacitance Test (MIL-STD-202, Method 305) 25°C, 1.0±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 (*100 M Ω - μ F)

Insulation Resistance 125°C (MIL-STD-202, Method 302) 50 M Ω - μ F (*10 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)

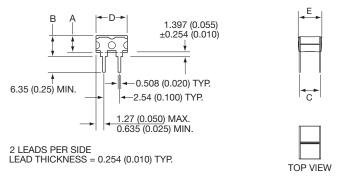
150% rated voltage at +125°C.



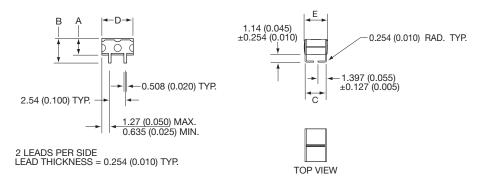
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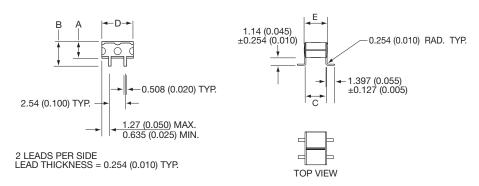
STYLE/DIMENSIONS



"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
ST10	5.59 (0.220)	7.00 (0.275)	3.81 (0.150)	5.33 (0.210)	4.83 (0.190)	02

PART NUMBER AVAILABLE OPTIONS (2X2)

Part Number	Temperature Coefficeient	Voltage	Capacitance Code	Capacitance	Capacitance Tolerance	Number Of Leads	Lead Styles
ST103C826MA-02	X7R	25	826	82µF	±20%	2	N, K, M
ST105C186MA-02	X7R	50	186	18µF	±20%	2	N, K, M
ST105C396MA-02	X7R	50	396	39µF	±20%	2	N, K, M
ST101C825MA-02	X7R	100	825	8.2µF	±20%	2	N, K, M



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D55342E07B523DR-T/R NCA1206X7R104K16TRPF NIN-FB391JTRF NIN-FC2R7JTRF NMC0402XPO220J50TRPF

NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF NMC0402X7R153K16TRPF

NMC0402X7R392K50TRPF NMC0603NPO1R8C50TRPF NMC0603NPO201J50TRPF NMC0603NPO330G50TRPF

NMC0603NPO331F50TRPF NMC0603X5R475M6.3TRPF NMC0805NPO220J100TRPF NMC0805NPO270J50TRPF

NMC0805NPO681F50TRPF NMC0805NPO820J50TRPF NMC1206X7R102K50TRPF NMC1210Y5V105Z50TRPLPF NMC
L0402NPO7R0C50TRPF NMC-L0603NPO2R2B50TRPF NMC-P1206X7R103K1KVTRPLPF NMC-Q0402NPO8R2D200TRPF

C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J 2220J2K00562KXT KHC201E225M76N0T00

1812J2K00332KXT CCR06CG153FSV CDR14BP471CJUR CDR31BX103AKWR CDR33BX683AKUS CGA2B2C0G1H010C

CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J

CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J

CGA2B2C0G1H6R8D