

GENERAL DESCRIPTION

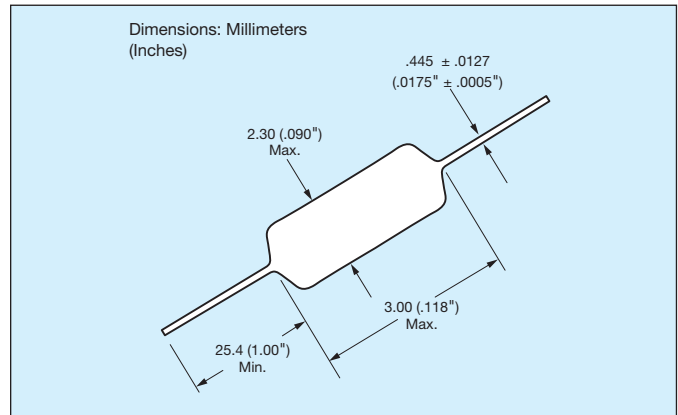
AVX SA Series

Conformally Coated Axial Leaded MLC

Temperature Coefficients: C0G (NP0), X7R, X5R, Z5U
10, 50, 100, 200 Volts

Case Material: Epoxy (Flame Retardant to UL Bulletin 492, Par. 280)

Lead Material: Solderable

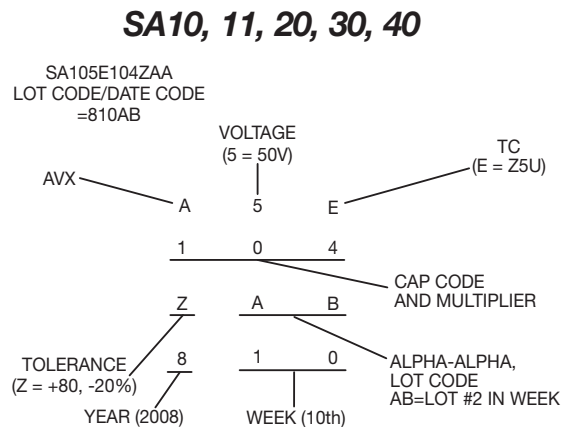
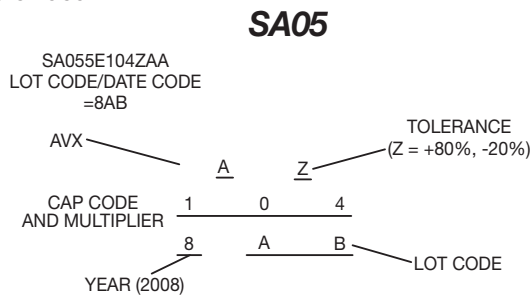


HOW TO ORDER

| | | | | | | |
|--|--|--|---|---|---------------------|---|
| SA10 | 5 | E | 104 | Z | A | R |
| Conformal Axial Size | Voltage | Dielectric | Capacitance | Capacitance Tolerance | Failure Rate | Leads |
| SA05 SA10 SA11 SA20 SA30 SA40 | Z = 10V 5 = 50V 1 = 100V 2 = 200V | A = C0G (NP0) C = X7R D = X5R E = Z5U | First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 100,000 pF as 104. (For values below 10pF use "R" in place of decimal point, e.g., 1R4 = 1.4pF) | C0G (NP0): C = ±.25pF D = ±.5pF F = ±1% G = ±2% J = ±5% K = ±10% X7R: J = ±5% K = ±10% M = ±20% X5R: K = ±10% M = ±20% Z5U: M = ±20% Z = +80% -20% | A = Not Applicable | Standard (Solderable) R = RoHS Compliant A = Standard Solderable |

MARKING (EXAMPLE)

SpinGuard marking includes full date code/lot code identification. A first in the industry, this format provides complete traceability to all manufacturing processes involving the basic chip and final assembly. Total Shipment traceability is also provided.



PACKAGING REQUIREMENTS

- A = Standard Reels (see Page 48)
- B = 1000 piece reels (distributors only, tight tolerance only)
- C = Ammo Pack (see Page 48)
- D thru J = See Special Lead Configurations (Page 41)
- M = 26mm tape and reel
- N = 26mm ammo pack
- R = RoHS, Standard reels (See page 48)

Axial Leads/SpinGuard®



X5R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)



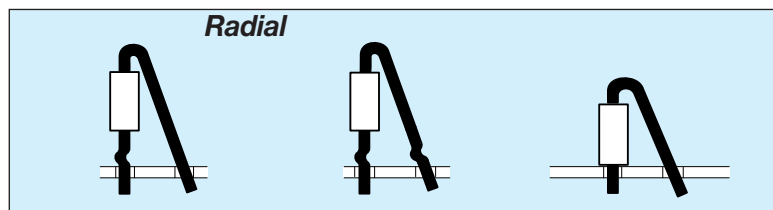
| AVX Style | | SA10 |
|-----------------|-----------------------|------------------|
| Length (L) | | 4.32 (.170") |
| Diameter (D) | | 2.54 (.100") |
| Lead Diameter | | .445 (.0175") |
| Lead Length | | 25.4 (1.00") |
| Cap. in μ F | Typical AVX Part Nos. | WVDC 10 |
| 1.8 | SA10ZD185KAR | |
| 2.7 | SA10ZD275KAR | |
| 3.3 | SA10ZD335KAR | |
| 4.7 | SA10ZD475KAR | |

For other tolerances see Part No. Codes
 For other voltages see Part No. Codes
 AVX Style

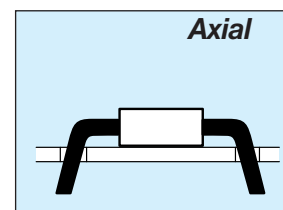
= Industry preferred values

SPECIAL LEAD CONFIGURATIONS

Dimensions — Body dimensions Per Standard SpinGuard Configurations.
 Formed dimensions as shown for types D, E, F, G, H, I, & J configurations.



D Single Crimp E Dual Crimp F No Crimp



G = .300" L.S. I = .500" L.S.
 H = .400" L.S. J = .600" L.S.

Formed Dimensions:

| | LEAD SPACING* | SEATED HEIGHT (Max.) | | |
|------|---------------|----------------------|-------|-------------|
| | Nom. | D & E | F | G, H, I & J |
| SA10 | .2" | .525" | .300" | .100" |
| SA20 | .2" | .570" | .375" | .100" |
| SA30 | .2" | .580" | .425" | .150" |
| SA40 | .2" | .650" | .460" | .150" |

*Lead spacing can be varied by user to cover .1"- .3" spacing requirements for F, D, and E styles.

