



**THE DATASHEET OF
SA101A821KAA**



AXIAL LEADS

SpinGuard®/SA Series

GENERAL INFORMATION

SA Series

Conformally Coated Axial Leaded MLC

Temperature Coefficients: COG (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 = COG (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.)	COG (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 (Also RoHS Compliant)

RoHS COMPLIANT

Please select correct termination style.

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 49)
- B = 1000 piece reels (distributors only, tight tolerance only)
- C = Ammo Pack (see Page 49)
- D thru J = See Special Lead Configurations (Page 41)
- M = 26mm tape and reel
- N = 26mm ammo pack
- R = RoHS, Standard reels (See page 49)

AXIAL LEADS

SpinGuard® - SA Series - COG (NP0) Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)

Style	SA05	SA10			SA11		SA20		SA30		SA40		
		Length (L)	Diameter (D)	Lead Diameter	Lead Length	Length (L)	Diameter (D)	Lead Diameter	Lead Length	Length (L)	Diameter (D)	Lead Diameter	Lead Length
1.0* 10 12 15 18 22 27 33 39 47 56 68 82	SA102A1R0DAR SA102A9R1DAR SA102A100JAR SA102A120JAR SA102A150JAR SA102A180JAR SA102A220JAR SA102A270JAR SA102A330JAR SA102A390JAR SA102A470JAR SA102A560JAR SA102A680JAR SA102A820JAR	3.00 (.118")	2.30 (.090")	.445 (.0175")	25.4 (1.00")	4.32 (.170")	2.54 (.100")	.445 (.0175")	25.4 (1.00")	4.32 (.170")	3.05 (.120")	.445 (.0175")	25.4 (1.00")
100 120 150 180 220 270 330 390 470 560 680 820	SA102A101JAR SA102A121JAR SA101A151JAR SA101A181JAR SA101A221JAR SA101A271JAR SA101A331JAR SA101A391JAR SA101A471JAR SA101A561JAR SA101A681JAR SA101A821JAR	6.60 (.260")	2.54 (.100")	.445 (.0175")	25.4 (1.00")	6.60 (.260")	2.54 (.100")	.445 (.0175")	25.4 (1.00")	7.37 (.290")	3.81 (.150")	.445 (.0175")	25.4 (1.00")
1000 1200 1500 1800 2200 2700 3300 3900 4700 5600 6800 8200 10,000 12,000	SA105A102JAR SA201A122JAR SA201A152JAR SA205A182JAR SA301A222JAR SA301A272JAR SA301A332JAR SA301A392JAR SA305A472JAR SA401A562JAR SA401A682JAR SA405A822JAR SA405A103JAR SA405A123JAR	10.16 (.400")	3.81 (.150")	.445 (.0175")	25.4 (1.00")	10.16 (.400")	3.81 (.150")	.445 (.0175")	25.4 (1.00")	10.16 (.400")	3.81 (.150")	.445 (.0175")	25.4 (1.00")

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

= Industry preferred values

**C&D" Tolerance Only

AXIAL LEADS/

SpinGuard® - SA Series - X7R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)



Style	SA05	SA10			SA11		SA20		SA30		SA40	
		Length (L)	Diameter (D)	Lead Diameter	Lead Length	Length (L)	Diameter (D)	Lead Diameter	Lead Length	Length (L)	Diameter (D)	Lead Diameter
220	SA102C221KAR											
270	SA102C271KAR											
330	SA102C331KAR											
390	SA102C391KAR											
470	SA102C471KAR											
560	SA101C561KAR											
680	SA101C681KAR											
820	SA101C821KAR											
1000	SA101C102KAR											
1200	SA101C122KAR											
1500	SA101C152KAR											
1800	SA101C182KAR											
2200	SA101C222KAR											
2700	SA101C272KAR											
3300	SA101C332KAR											
3900	SA101C392KAR											
4700	SA101C472KAR											
5600	SA101C562KAR											
6800	SA101C682KAR											
8200	SA105C822KAR											
10,000	SA105C103KAR											
12,000	SA105C123KAR											
15,000	SA105C153KAR											
18,000	SA105C183KAR											
22,000	SA105C223KAR											
27,000	SA105C273KAR											
33,000	SA105C333KAR											
39,000	SA105C393KAR											
47,000	SA105C473KAR											
56,000	SA115C563KAR											
68,000	SA115C683KAR											
82,000	SA115C823KAR											
100,000	SA115C104KAR											
120,000	SA305C124KAR											
150,000	SA305C154KAR											
180,000	SA305C184KAR											
220,000	SA305C224KAR											
270,000	SA305C274KAR											
330,000	SA305C334KAR											
470,000	SA405C474KAR											
1,000,000	SA305C105KAR											

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

= Industry preferred values

AXIAL LEADS/SPINGUARD®

SpinGuard® - SA Series - Z5U Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)

Style	SA05	SA10	SA11	SA20	SA30	SA40						
Length (L)	3.00 (.118")	4.32 (.170")	4.32 (.170")	6.60 (.260")	7.37 (.290")	10.16 (.400")						
Diameter (D)	2.30 (.090")	2.54 (.100")	3.05 (.120")	2.54 (.100")	3.81 (.150")	3.81 (.150")						
Lead Diameter	.445 (.0175")	.445 (.0175")	.445 (.0175")	.445 (.0175")	.445 (.0175")	.445 (.0175")						
Lead Length	25.4 (1.00")	25.4 (1.00")	25.4 (1.00")	25.4 (1.00")	25.4 (1.00")	25.4 (1.00")						
Cap. in. pF	Typical Part Nos.	WVDC		WVDC		WVDC		WVDC		WVDC		
		50	100	50	100	50	100	50	100	50	100	50
10,000	SA105E103ZAR											
15,000	SA105E153ZAR											
22,000	SA105E223ZAR											
33,000	SA105E333ZAR											
47,000	SA105E473ZAR											
68,000	SA105E683ZAR											
*100,000	SA105E104ZAR											
150,000	SA105E154ZAR											
220,000	SA105E224ZAR											
330,000	SA115E334ZAR											
470,000	SA305E474ZAR											
680,000	SA305E684ZAR											
820,000	SA305E824ZAR											
1,000,000	SA305E105ZAR											

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

= Industry preferred values

***Preferred Industry Decoupling Capacitor** — Insertable on .300" centers.
SA105E104ZAA

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 [AVX Corp/Kyocera Corp](#) Information

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-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
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