



**THE DATASHEET OF
SA051C472KAR**



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)		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		WVDC	
		100	50	200	100	50	100	50	100	50	100	50	100
1.0*	SA102A1R0DAR												
9.1*	SA102A9R1DAR												
10	SA102A100JAR												
12	SA102A120JAR												
15	SA102A150JAR												
18	SA102A180JAR												
22	SA102A220JAR												
27	SA102A270JAR												
33	SA102A330JAR												
39	SA102A390JAR												
47	SA102A470JAR												
56	SA102A560JAR												
68	SA102A680JAR												
82	SA102A820JAR												
100	SA102A101JAR												
120	SA102A121JAR												
150	SA101A151JAR												
180	SA101A181JAR												
220	SA101A221JAR												
270	SA101A271JAR												
330	SA101A331JAR												
390	SA101A391JAR												
470	SA101A471JAR												
560	SA101A561JAR												
680	SA101A681JAR												
820	SA101A821JAR												
1000	SA105A102JAR												
1200	SA201A122JAR												
1500	SA201A152JAR												
1800	SA205A182JAR												
2200	SA301A222JAR												
2700	SA301A272JAR												
3300	SA301A332JAR												
3900	SA301A392JAR												
4700	SA305A472JAR												
5600	SA401A562JAR												
6800	SA401A682JAR												
8200	SA405A822JAR												
10,000	SA405A103JAR												
12,000	SA405A123JAR												

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	Cap. in. pF	Typical Part Nos.	200	100	50	200	100	50	100	50	100	50	100	50
220	SA102C221KAR	3.00 (.118")	2.30 (.090")	.445 (.0175")	25.4 (1.00")	220													
270	SA102C271KAR	4.32 (.170")	2.54 (.100")	.445 (.0175")	25.4 (1.00")	270													
330	SA102C331KAR	4.32 (.170")	3.05 (.120")	.445 (.0175")	25.4 (1.00")	330													
390	SA102C391KAR	6.60 (.260")	2.54 (.100")	.445 (.0175")	25.4 (1.00")	390													
470	SA102C471KAR	7.37 (.290")	3.81 (.150")	.445 (.0175")	25.4 (1.00")	470													
560	SA101C561KAR	10.16 (.400")	3.81 (.150")	.445 (.0175")	25.4 (1.00")	560													
680	SA101C681KAR					680													
820	SA101C821KAR					820													
1000	SA101C102KAR					1000													
1200	SA101C122KAR					1200													
1500	SA101C152KAR					1500													
1800	SA101C182KAR					1800													
2200	SA101C222KAR					2200													
2700	SA101C272KAR					2700													
3300	SA101C332KAR					3300													
3900	SA101C392KAR					3900													
4700	SA101C472KAR					4700													
5600	SA101C562KAR					5600													
6800	SA101C682KAR					6800													
8200	SA105C822KAR					8200													
10,000	SA105C103KAR					10,000													
12,000	SA105C123KAR					12,000													
15,000	SA105C153KAR					15,000													
18,000	SA105C183KAR					18,000													
22,000	SA105C223KAR					22,000													
27,000	SA105C273KAR					27,000													
33,000	SA105C333KAR					33,000													
39,000	SA105C393KAR					39,000													
47,000	SA105C473KAR					47,000													
56,000	SA115C563KAR					56,000													
68,000	SA115C683KAR					68,000													
82,000	SA115C823KAR					82,000													
100,000	SA115C104KAR					100,000													
120,000	SA305C124KAR					120,000													
150,000	SA305C154KAR					150,000													
180,000	SA305C184KAR					180,000													
220,000	SA305C224KAR					220,000													
270,000	SA305C274KAR					270,000													
330,000	SA305C334KAR					330,000													
470,000	SA405C474KAR					470,000													
1,000,000	SA305C105KAR					1,000,000													

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
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

Looking for pricing, stock, or lifecycle information?

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