



**THE DATASHEET OF
SA105C103JAC**



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

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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