AXIAL LEADS

SpinGuard[®]/SA Series

🔇 KYOCERa

R

Leads

(Also RoHS Compliant)

ΤС

(E = Z5U)

CAP CODE

AND MULTIPLIER

AB=LOT #2 IN WEEK

ALPHA-ALPHA, LOT CODE

Standard (Solderable) R = RoHS Compliant

Solderable

A = Standard

RoHS

COMPLIANT

Please select correct

termination style.

GENERAL INFORMATION

SA Series

Conformally Coated Axial Leaded MLC

Temperature Coefficients: COG (NPO), X7R, X5R, Z5U 10, 50, 100, 200 Volts

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

104

Lead Material: Solderable

Dimensions: Millimeters (Inches) .445 ± .0127 (.0175" ± .0005") 2.30 (.090") 3.00 (.118") Max 25.4 (1.00") Min

Α

Failure Rate

A = Not Applicable

Ζ

Capacitance

Tolerance

X7R:

X5B.

Z5U:

SA105E104ZAA

LOT CODE/DATE CODE =810AB

AVX ·

TOLERANCE

(Z = +80, -20%)

 $J = \pm 5\%$

 $K = \pm 10\%$

 $M = \pm 20\%$

 $K = \pm 10\%$

 $M = \pm 20\%$

 $M = \pm 20\%$

Z = +80%

Α

8

YEAR (2008)

-20%

SA10, 11, 20, 30, 40

VOLTAGE

(5 = 50V)

5

0

А

1

F

4

В

0

WEEK (10th)

COG (NPO):

 $C = \pm .25 pF$

 $D = \pm .5pF$

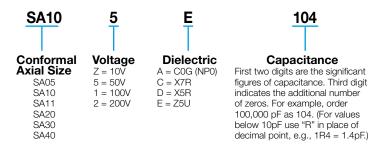
 $F = \pm 1\%$

 $G = \pm 2\%$

 $J = \pm 5\%$

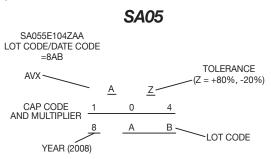
 $K = \pm 10\%$

HOW TO ORDER



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)

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AXIAL LEADS SpinGuard® - SA Series - COG (NP0) Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

	nsions: Millimeters (Inches)		SA05		SA10		SA11		6400		6420			40
Style Length (L)		-		-			-		SA20		SA30		SA40	
		3.00 (.118")		4.32 (.170")		4.32 (.170")		6.60 (.260")		7.37 (.290")		10.16 (.400")		
														Diameter (D) Lead Diameter
(.100") .445 (.0175") 25.4 (1.00") WVDC		(.120")		(.100")		(.150")		(.150")						
			.445 (.0175")		.445 (.0175")		.445 (.0175")		.445 (.0175")					
		")												
		Lead Length		25.4		25.4 (1.00") WVDC		25.4 (1.00") WVDC		25.4		25.4		
		Lead Length		(1.00") WVDC						(1.0	DO")	(1.00")		
		Cap. Typical								WVDC		WVDC		
in. pF	Part Nos.	100 50		200 100 50			100 50		100 50		100 50		100 50	
1.0*	SA102A1R0DAR													
m)	m)													
9.1*	SA102A9R1DAR													
10	SA102A100JAR							1	1		1			1
12	SA102A120JAR													
15	SA102A150JAR													
18	SA102A180JAR													
22	SA102A220JAR													
27	SA102A270JAR							ļ						<u> </u>
33	SA102A330JAR													
39	SA102A390JAR													
<u>47</u> 56	SA102A470JAR SA102A560JAR									-				
56 68	SA102A560JAR SA102A680JAR													
82	SA102A000JAR SA102A820JAR													
100	SA102A0200AR								+					
120	SA102A121JAR													
150	SA101A151JAR													
180	SA101A181JAR													
220	SA101A221JAR													
270	SA101A271JAR													
330	SA101A331JAR													
390	SA101A391JAR													
470	SA101A471JAR			-										
560 680	SA101A561JAR SA101A681JAR													
820	SA101A681JAR SA101A821JAR													
1000	SA101A021JAR			+				<u> </u>			+	1		<u> </u>
1200	SA201A122JAR													
1500	SA201A152JAR													
1800	SA205A182JAR													
2200	SA301A222JAR													
2700	SA301A272JAR													<u> </u>
3300	SA301A332JAR													
3900	SA301A392JAR													
4700 5600	SA305A472JAR SA401A562JAR			+										
5600 6800	SA401A562JAR SA401A682JAR													
8200	SA401A002JAR SA405A822JAR													
10,000	SA405A0220AN			+					1	1	1	1		
12.000	SA405A123JAR								1					

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

= Industry preferred values

*"C&D" Tolerance Only

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AXIAL LEADS/ SpinGuard[®] - SA Series - X7R Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

imensions: Millimeters (Inches)																										
Style Length (L) Diameter (D) Lead		3.00		SA10 4.32 (.170")		SA11 4.32 (.170")		SA20 6.60 (.260")		SA30 7.37 (.290")		SA40 10.16 (.400")														
															2.30		2.54 (.100")		3.05 (.120")		2.54 (.100")		3.81 (.150")		3.81 (.150")	
															(.090")											
					.445		.445		.445		.445		.445													
			Diameter Lead		· · · · · ·			(.0175")		(.0175") 25.4		(.0175")		(.0175")		(.0175")										
							25.4																			
Length		(1.00")		(1.00") WVDC		(1.00") WVDC		(1.00") WVDC		(1.00") WVDC		(1.0	00")													
Cap. Typical		WVDC										WVDC														
in. pF	Part Nos.	-		200 100 50		100 50		100 50		100 50		100 50														
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														<u> </u>											
2700	SA101C272KAR																									
3300	SA101C332KAR																									
3900	SA101C392KAR																									
4700	SA101C472KAR																									
5600	SA101C562KAR																									
6800	SA101C682KAR																									
8200	SA105C822KAR																									
10.000	SA105C103KAR																									
12,000	SA105C123KAR											1														
15,000	SA105C153KAR																									
18,000	SA105C183KAR																									
22,000	SA105C223KAR				İ	1			İ						İ											
27,000	SA105C273KAR																									
33,000	SA105C333KAR																									
39,000	SA105C393KAR														1											
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		7																							
,000,000	SA305C105KAR																									

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

— Style

= Industry preferred values

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AXIAL LEADS/SPINGUARD®



SpinGuard[®] - SA Series - Z5U Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

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



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