#### **AXIAL LEADS**

### SpinGuard®/SA Series



#### **GENERAL INFORMATION**

**SA Series** 

**Conformally Coated Axial Leaded MLC** 

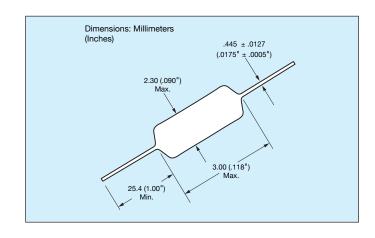
Temperature Coefficients: COG (NPO), X7R, X5R, Z5U

10, 50, 100, 200 Volts

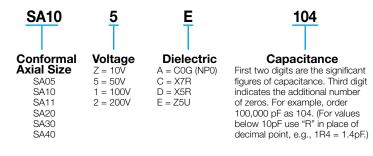
Case Material: Epoxy (Flame Retardant to UL Bulletin

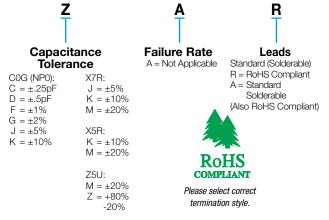
492. Par. 280)

Lead Material: Solderable



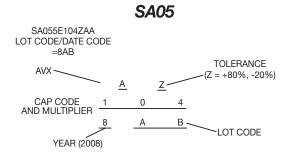
#### **HOW TO ORDER**



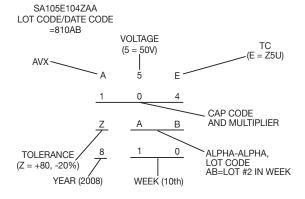


#### MARKING (EXAMPLE)

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.



## SA10, 11, 20, 30, 40



#### **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**

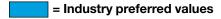




#### SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)				<del>-</del>										
	Style		\05	<b>SA10</b> 4.32		<b>SA11</b> 4.32		<b>SA20</b> 6.60		<b>SA30</b> 7.37		<b>SA40</b> 10.16		
	Length	3.00												
	(L)		18")	(.170") 2.54		(.170") 3.05		(.260") 2.54		(.290")		(.400")		
	Diameter	2.	30											
	(D)		90")		(.100")	)	(.1)	20")	(.100") .445		(.150") .445		(.18	50")
	Lead Diameter		45		.445		.4	45					.445	
	Leau Diameter		(.0175")		(.0175")		(.0175")		(.0175")		(.0175")		(.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.	Typical	WVDC		WVDC		WVDC		WVDC		WVDC		WVDC		
in. pF	Part Nos.	100	50	200	100	50	100	50	100	50	100	50	100	50
1.0*	SA102A1R0DAR													
тþ	m <sub>p</sub>													
9.1*	SA102A9R1DAR													
10	SA102A100JAR													
12	SA102A120JAR													
15 18	SA102A150JAR								1	1				
22	SA102A180JAR SA102A220JAR													
27	SA102A220JAN SA102A270JAR													
33	SA102A330JAR													
39	SA102A390JAR													
47	SA102A470JAR													
56	SA102A560JAR													
68	SA102A680JAR													
82	SA102A820JAR													
100	SA102A101JAR													
120 150	SA102A121JAR SA101A151JAR													
180	SA101A131JAR								+	+				
220	SA101A221JAR													
270	SA101A271JAR													
330	SA101A331JAR													
390	SA101A391JAR													
470	SA101A471JAR							1	1	1		-		
560	SA101A561JAR													
680 820	SA101A681JAR SA101A821JAR													
1000	SA101A621JAR SA105A102JAR			+								1		
1200	SA201A122JAR													
1500	SA201A152JAR													
1800	SA205A182JAR			1										
2200	SA301A222JAR													
2700	SA301A272JAR			1										
3300	SA301A332JAR													
3900 <b>4700</b>	SA301A392JAR <b>SA305A472JAR</b>													
5600	SA401A562JAR			+				1	+	+	+			
6800	SA401A682JAR													
<b>8200</b>	SA405A822JAR													
10,000	SA405A103JAR			1				İ	1	1	İ			
12,000	SA405A123JAR													

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



\*"C&D" Tolerance Only

## **AXIAL LEADS/**





#### SIZE AND CAPACITANCE SPECIFICATIONS

	sions: Millimeters (Inches)		SA05			SA10		SA11		SA20		6430		6440	
Style Length (L)		3.00		4.32		4.32		6.60		7.37		10.16 (400")			
															.118")
		Diameter		2.30		2.54		3.05		2.54		3.81		(3.81	
(D) Lead Diameter		(	.090")		(.100")		(.12	20")	(.100")		(.150")		(.150")		
		.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")			
														Lead	
Length															
Cap. Typical															WVDC
in. pF	Part Nos.	_			200 100 50						100 50				
		200	100	50	200	100	50	100	50	100	50	100	50	100	50
220 270	SA102C221KAR SA102C271KAR														
330	SA102C331KAR														
390	SA102C391KAR														
470	SA102C471KAR														
560	SA101C561KAR														
680	SA101C681KAR														
820	SA101C821KAR														
1000	SA101C102KAR					-									-
1200	SA101C122KAR														
1500	SA101C152KAR														
1800	SA101C182KAR														-
2200 2700	SA101C222KAR SA101C272KAR														
3300															
3900	SA101C332KAR SA101C392KAR														
4700	SA101C392KAN SA101C472KAR														
5600	SA101C472KAR SA101C562KAR														
6800	SA101C302KAR SA101C682KAR														
8200	SA101C002KAR SA105C822KAR														
10,000	SA105C103KAR														
12,000	SA105C123KAR														1
15,000	SA105C153KAR														
18,000	SA105C183KAR														
22,000	SA105C223KAR														
27,000	SA105C273KAR														
33,000	SA105C333KAR														
39,000	SA105C393KAR														
47,000	SA105C473KAR														
56,000	SA115C563KAR		ļ												
68,000	SA115C683KAR														
82,000	SA115C823KAR		l												
00,000	SA115C104KAR														
20,000	SA305C124KAR														
50,000	SA305C154KAR														
80,000	SA305C184KAR				ļ										
220,000	SA305C224KAR														
270,000	SA305C274KAR														
30,000	SA305C334KAR				<u> </u>										
170,000	SA405C474KAR	I	J												
000,000	SA305C105KAR					1	1				1			1	

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

= Industry preferred values

# **AXIAL LEADS/SPINGUARD®**





#### SIZE AND CAPACITANCE SPECIFICATIONS

	Style	SA05	SA	SA10		SA11		SA20		SA30		SA40	
Length (L) Diameter (D) Lead Diameter Lead Length		3.00 (.118")		4.32 (.170") 2.54 (.100")		4.32 (.170") 3.05 (.120")		6.60 (.260") 2.54 (.100")		7.37 (.290") 3.81 (.150")		10.16 (.400") 3.81 (.150")	
		2.30 (.090")											
		.445 (.0175")	.445 (.0175") 25.4 (1.00")		.445 (.0175") 25.4 (1.00") <b>WVDC</b>		.445 (.0175") 25.4 (1.00") <b>WVDC</b>		.445 (.0175") 25.4 (1.00") <b>WVDC</b>		.445 (.0175") 25.4 (1.00") <b>WVDC</b>		
		25.4 (1.00")											
Cap. Typical		WVDC	WVDC										
in. pF	Part Nos.	50	100	50	100	50	100	50	100	50	100	50	
<b>10,000</b> 15,000	<b>SA105E103ZAR</b> 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												
000,000	SA305E105ZAR		1										

= Industry preferred values

111319

<sup>\*</sup>Preferred Industry Decoupling Capacitor — Insertable on .300" centers. **SA105E104ZAA** 

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# Kyocera AVX:

SA101C471KAA SA101A201JAR SA052A180JAR SA102A3R9DAR SA102A1R5DAR SA055C104KAR