SkyCap®/AR Series - Automotive



GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

Temperature Coefficients: COG (NPO), X7R, X8R

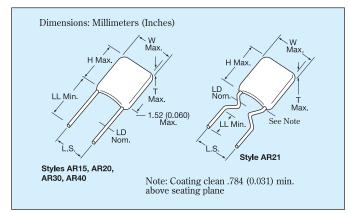
3000, 2000, 1000, 200, 100, 50 Volts

Case Material: Epoxy

Lead Material: RoHS Compliant, 100% Tin

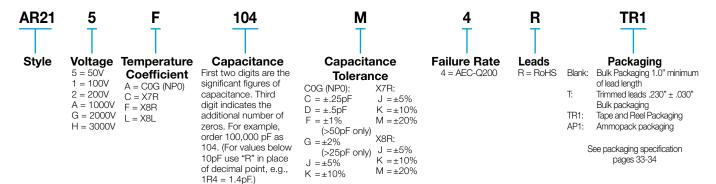
Qualified: to AEC-Q200, PPAP Available

Temperature Range: up to 150°C



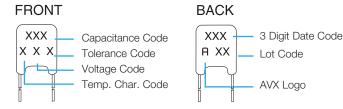
Drawings are for illustrative purposes only. Actual lead form shape could vary within stated tolerances based on body size.

HOW TO ORDER





MARKING



PACKAGING REQUIREMENTS

	Quantity per Bag
AR15, 20, 21, 30	1000 Pieces
AR40	500 Pieces

Note: AR15, AR20, AR21, AR30, and AR40 available on tape and reel per EIA specifications RS-468. See pages 33 and 34.

COG (NP0) Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

EIA Characteristic Dimensions: Millimeters (Inches										
		AR15			AR20			AR21		
"Insertable"			AR07			AR29			AR59	
Width		3.81		5.08			5.08			
	(W)	(.150)		(.200)			(.200)			
	Height		3.81			5.08		5.08		
	(H)		(.150)			(.200)		(.200)		
	Thickness		2.54			3.175			3.175	
	(T)		(.100)			(.125)			(.125)	
	Lead Spacing		2.54 (.100)			2.54 (.100)		5.08		
	(L.S.) Lead Diameter		.508			.508			<u>(.200)</u> .508	
	(L.D.)		(.020)			.308 (.020)			(.020)	
Cap.	Industry Preferred		WVDC			WVDC			WVDC	
in. pF	Values in Blue	200	100	50	200	100	50	200	100	50
1	ARA1R0D4R									
10	ARA100K4R									
15	ARA150K4R									
22	ARA220K4R									
33	ARA330K4R									
39	ARA390K4R									
47	ARA470K4R									
68	ARA680K4R									
100	ARA101K4R									
150	ARA151K4R									
220	ARA221K4R									
330	ARA331K4R									
390	ARA391K4R									
470	ARA471K4R									
680	ARA681K4R									
1,000	ARA102K4R									
1,500	ARA152K4R									
2,200	ARA222K4R									
3,900	ARA392K4R									
4,700	ARA472K4R									
6800	ARA682K4R									
8200 Notes:	ARA822K4R									

Notes:

Others styles available: AR12, AR14, AR62, AR89.

[&]quot;Insertable" make reference to alternative KYOCERA AVX style using the same range of capacitance available on the matrix.

For others Styles, voltages, tolerance and lead lengths see Skycap catalog or contact factory.

Others capacitance values available upon special request.

X7R Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

EIA CHARACIEN	3110							JI 13. 1VI		915 (1110	1100)	
	Style	AR	15	AR	20	AR	21	AR	30	AR	40	
"Insertable"		AR	07	AR	29	AR	59	AR	65	AR	75	
	Width		3.81 5.08		5.08		7.62		10.16			
	(W)		(.150)		(.200)		(.200)		(.300)		(.400)	
	Height	3.81		5.08		5.08		7.62		10.16		
	(H)	(.15	50)	(.2	(.200)		00)	(.300)		(.400)		
	Thickness	2.54		3.1		-	75	3.8		3.81		
	(T)	(.10		(.12			25)	(.1		(.1		
	Lead Spacing	2.		2.			08	5.0		5.0		
	(L.S.)	(.10		(.10		(.2		(.20		(.2		
	Lead Diameter	.50		.50			80		98	_	80	
-	(L.D.)	(.02		(.0:			20)	(.0:		(.020)		
Cap.	Industry Preferred	WV		WV		WV		WV			DC	
in. pF	Values in Blue	100	50	100	50	100	50	100	50	100	50	
470	ARC471K4R											
1000	ARC102K4R											
1500	ARC152K4R									-	-	
2200	ARC222K4R											
3300	ARC332K4R											
4700 6800	ARC472K4R ARC682K4R											
10,000	ARC103K4R									-	-	
15,000	ARC103K4R											
22,000	ARC223K4R											
33,000	ARC223K4R ARC333K4R											
47,000	ARC473K4R											
68,000	ARC683K4R											
100,000	ARC104K4R											
150,000	ARC154K4R											
220,000	ARC224K4R											
330,000	ARC334K4R											
390,000	ARC394K4R											
470,000	ARC474K4R											
680,000	ARC684K4R											
1.0 uF	ARC105K4R											
4,700,000	ARC475K4R											
6,800,000	ARC685K4R											
10.0 uF	ARC106K4R											

= Extended range with 0.150" thickness maximum

Notes:

"Insertable" make reference to alternative KYOCERA AVX style using the same range of capacitance available on the matrix.

For others Styles, voltages, tolerance and lead lengths see Skycap catalog or contact factory.

Others capacitance values available upon special request.

Others styles available: AR12, AR14, AR62, AR89, AR32, AR38.

X8R Dielectric "F"



GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

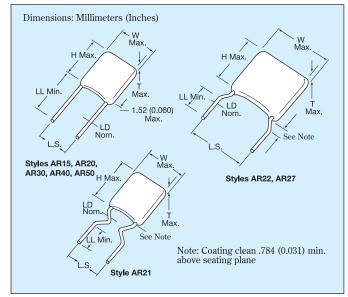
Temperature Coefficients: COG (NPO), X7R, X8R

200, 100, 50 Volts

Case Material: Epoxy

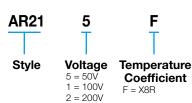
Lead Material: Solderable Qualified: to AEC-Q200

Temperature Range: up to 150°C



Drawings are for illustrative purposes only. Actual lead form shape could vary within stated tolerances based on body size.







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.)



X8R: $J = \pm 5\%$ $K = \pm 10\%$ $M = \pm 20\%$

M



Leads 4 = AEC-Q200R = RoHS

TR1

Packaging Blank: Bulk Packaging 1.0" minimum

of lead length

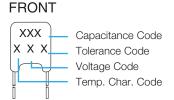
T: Trimmed leads .230" ± .030" Bulk packaging

Tape and Reel Packaging TR1: AP1: Ammopack packaging

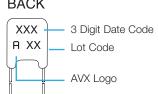
> See packaging specification pages 33-34



MARKING



BACK



PACKAGING REQUIREMENTS

	Quantity per Bag
AR15, 20, 21, 30	1000 Pieces
AR40	500 Pieces

Note: AR15, AR20, AR21, AR30, and AR40 available on tape and reel per EIA specifications RS-468. See pages 33 and 34.

X8R Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

EIA CharacteristicDimensions: Millimeters (Inches)

		AR20			AR21		
		AR29			AR59		
	5.08 (.200)			5.08 (.200)			
	5.08 (.200)			5.08 (.200)			
	3.175 (.125)			3.175 (.125)			
	2.54 (.100)			5.08 (.200)			
Lead Diameter (L.D.)		.508 (.020)			.508 (.020)		
Сар.	Industry Preferred		WVDC			WVDC	
in. pF	Values in Blue	200	100	50	200	100	50
1,000	ARF102K4R						
10,000	ARF103K4R						
100,000	ARF104K4R						
330,000	ARF334K4R						

Notes:

For others Styles, voltages, tolerance and lead lengths see Skycap catalog or contact factory.

Others capacitance values available upon special request. Others styles available: AR14, AR62, AR89.

022520

[&]quot;Insertable" make reference to alternative KYOCERA AVX style using the same range of capacitance available on the matrix.





STYLES AND CAPACITANCE SPECIFICATIONS

EIA Chacteristics

EIA CHacteristics								
	AR15		AR20		AR21			
"lı	"Insertable"		AR07		AR29		AR59	
Cap. in pF	Industry Preferred	W۷	'DC	W۷	'DC	W۷	'DC	
оар. птрт	Values	100	50	100	50	100	50	
470	ARL471K4R							
1,000	ARL102K4R							
1,500	ARL152K4R							
2,200	ARL222K4R							
3,300	ARL332K4R							
4,700	ARL472K4R							
6,800	ARL682K4R							
10,000	ARL103K4R							
15,000	ARL153K4R							
22,000	ARL223K4R							
33,000	ARL333K4R							
47,000	ARL473K4R							
68,000	ARL683K4R							
100,000	ARL104K4R							
150,000	ARL154K4R							
220,000	ARL224K4R							
330,000	ARL334K4R							
390,000	ARL394K4R							
470,000	ARL474K4R							
680,000	ARL684K4R							
1.0 uF	ARL105K4R							
4700,000	ARL475K4R							
6800,000	ARL685K4R							
10.0 uF	ARL106K4R							



High Voltage Automotive Product SkyCap Capacitors - X7R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

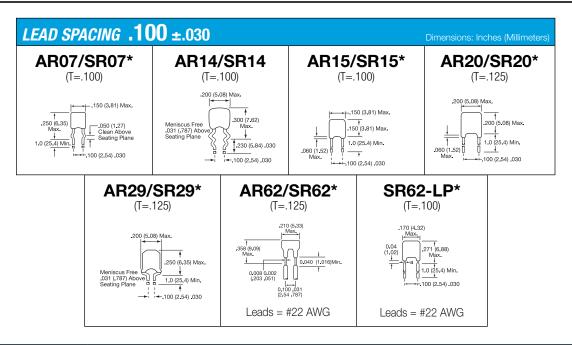
EIA CharacteristicDimensions: Millimeters (Inches)

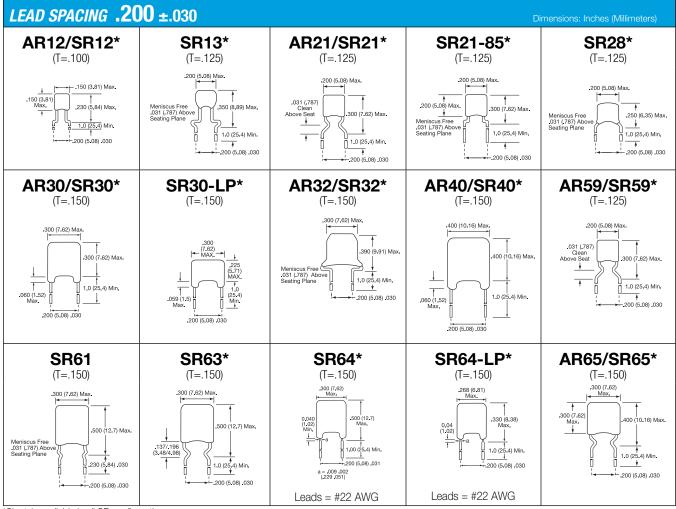
	Style	AR20	AR21	AR22	AR27	AR	30
	"Insertable"	AR29	AR59	N/A	N/A	AR	65
Cap.	Industry Preferred		WVDC	WVDC	WVDC	WV	/DC
in. pF	Values in Blue	1000	1000	1000	1000	2000	3000
470	ARC471K4R						
1000	ARC102K4R						
1500	ARC152K4R						
2200	ARC222K4R						
3300	ARC332K4R						
4700	ARC472K4R						
6800	ARC682K4R						
10,000	ARC103K4R						
15,000	ARC153K4R						
22,000	ARC223K4R						
47,000	ARC473K4R						
68,000	ARC683K4R						

For others Styles, voltages, tolerance and lead lengths see Skycap catalog or contact factory.

022520

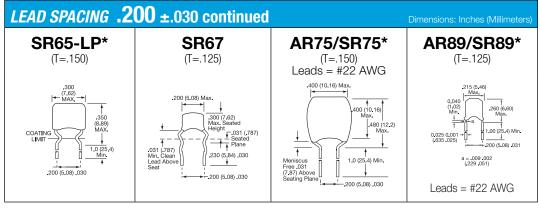


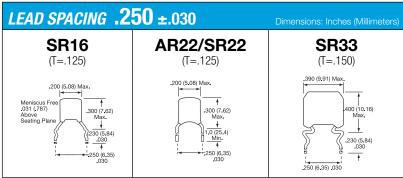


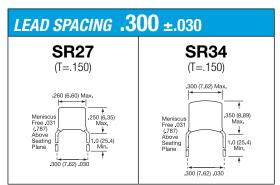


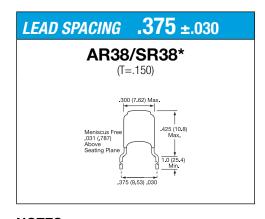
^{*}SL style available in all SR configurations.

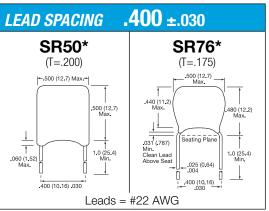












NOTES: 1. All leads are #24 AWG unless otherwise noted.

- 2. Available in tape and reel packaging(*).
- 3. Other styles are also available, contact factory.
- 4. (T = XXX) under type designation is maximum thickness in inches.

Drawings are for illustrative purposes only.

Actual lead form shape could vary within stated tolerances based on body size.

111319

^{*}SL style available in all SR configurations.

Mouser Electronics

Authorized Distributor

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

KYOCERA AVX:

AR215F102K4R AR215F102K4RTR1 AR215F103K4R AR215F103K4RTR1 AR215F104K4R AR215F104K4RTR1 AR215A101K4R AR215C102K4R AR215A102K4R AR215C103K4R AR215C104K4R AR215C224K4R AR211C103K4R AR155C102K4R AR211C102K4R AR151C103K4R AR305C474K4R AR155A102K4R AR205A102K4R AR211A101K4R AR401C105K4R AR211C104K4R AR155C104K4R AR201C104K4R AR151C102K4R AR201A102K4R AR201C102K4R AR155C103K4R AR201C103K4R AR205C224K4R AR211A102K4R AR215F103K4RTR2 AR215F473K4R AR155A101K4R AR205F104K4R AR201C333K4RTR2 AR215F472K4RTR1 AR201C103K4RTR2 AR201C472K4RTR2 AR205F102K4RTR2 AR205F103K4RTR2 AR205F104K4RTR2 AR205F334K4R AR211A471J4R AR211A471J4RTR2 AR211C102K4RTR2 AR211C103K4RTR2 AR211C472K4RTR2 AR212A101J4RTR2 AR212A221J4R AR212A221J4RTR2 AR215A102J4R AR215A222J4R AR215A222J4RTR2 AR215A472J4RTR2 AR215C104K4RTR2 AR215F102K4RTR2 AR215F104K4RTR2 AR305C474K4RTR2 AR401C105K4RTR2 AR215F334K4R AR205F472K4R AR215F472K4R AR215C393K4R AR155A471K4RTR1 AR215F473K4RTR1 AR215A822K4RTR1 AR201A680K4RTR1 AR155A331K4RTR1 AR201A681K4RTR1 AR201C472K4RTR1 AR155A470K4RTR1 AR211C393K4RTR1 AR211A100K4RTR1 AR205A822K4RTR1 AR211C223K4R AR215A681K4RTR1 AR211C682K4RTR1 AR211A391K4R AR215C223K4R AR155A331K4R AR215A151K4RTR1 AR201C152K4RTR1 AR155A1R0D4R AR201A152K4RTR1 AR201A150K4RTR1 AR201A151K4RTR1 AR211C333K4RTR1 AR155A151K4RTR1 AR201C393K4R AR205C393K4R AR201C153K4RTR1 AR155A391K4R AR151C682K4RTR1 AR211C152K4RTR1 AR201C473K4RTR1 AR215A150K4RTR1 AR211C683K4RTR1 AR151C681K4RTR1 AR211C333K4R