SkyCap®/AR Series - Automotive



GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

Temperature Coefficients: COG (NPO), X7R, X8R

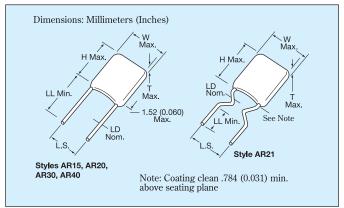
3000, 2000, 1000, 200, 100, 50 Volts

Case Material: Epoxy

Lead Material: RoHS Compliant, 100% Tin

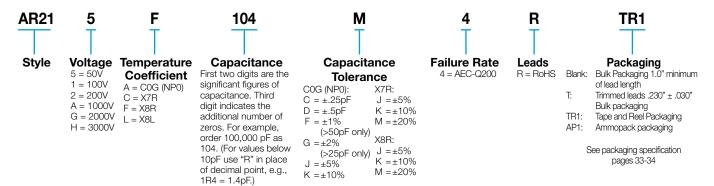
Qualified: to AEC-Q200, PPAP Available

Temperature Range: up to 150°C



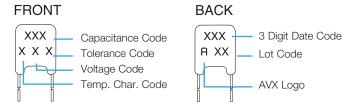
Drawings are for illustrative purposes only. Actual lead form shape could vary within stated tolerances based on body size.

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 Chara	cteristic	EIA Characteristic Dimensions: Millimeters (Inches								
Style						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			2.54			5.08	
	(L.S.)		(.100)			(.100)			(.200)	
	Lead Diameter (L.D.)		.508 (.020)			.508 (.020)			.508 (.020)	
Con	Industry Preferred		WVDC			WVDC			WVDC	
Cap. 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	ARA822K4R									
Notes:										

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 Characteristic Dimensions: Millimeters (Inches)												
	Style	AR	15	AR	20	AR	21	AR	30	AR	40	
	"Insertable"		07	AR	29	AR	59	AR	65	AR	75	
	Width		3.81		5.08		5.08		7.62		10.16	
(W)		(.15	50)	(.200)		(.200)		(.300)		(.400)		
	Height	3.81		5.08		5.08		7.62		10.16		
	(H)	(.15	50)	(.2)	00)	(.2	00)	(.3	00)	(.4	00)	
	Thickness	2.			3.175		75	3.		3.81		
	(T)	(.10		(.12		<u> </u>	25)	(.1		_	50)	
	Lead Spacing	2.			54		08	5.		-	08	
	(L.S.)	(.10		(.10		(.2		(.2		(.2		
	Lead Diameter	.50			08		08		80	_	80	
_	(L.D.)	(.02		(.0:		(.0:		(.0:		_	20)	
Cap.	Industry Preferred	WV		WV		WV			DC	WV		
in. pF	Values in Blue	100	50	100	50	100	50	100	50	100	50	
470	ARC471K4R											
1000	ARC102K4R											
1500	ARC152K4R							<u> </u>				
2200	ARC222K4R											
3300	ARC332K4R											
4700	ARC472K4R											
6800	ARC682K4R ARC103K4R							 				
10,000 15,000	ARC103K4R											
22,000	ARC223K4R											
33,000	ARC333K4R							ļ				
47.000	ARC333K4R ARC473K4R							<u> </u>				
68,000	ARC683K4R							_				
100,000	ARC104K4R											
150,000	ARC154K4R							\vdash				
220,000	ARC224K4R											
330,000	ARC334K4R											
390,000	ARC394K4R											
470,000	ARC474K4R											
680,000	ARC684K4R											
1.0 uF	ARC105K4R					l		l				
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

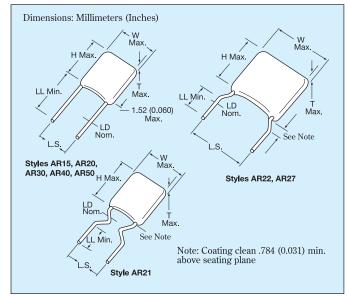
Temperature Coefficients: COG (NPO), X7R, X8R

200, 100, 50 Volts

Case Material: Epoxy

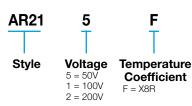
Lead Material: Solderable Qualified: to AEC-Q200

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.







Capacitance 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



4 = AEC-Q200

Leads R = RoHS

TR1

Packaging Blank: Bulk Packaging 1.0" minimum

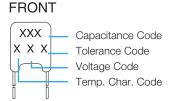
of lead length

T: Trimmed leads .230" ± .030" Bulk packaging Tape and Reel Packaging TR1: AP1: Ammopack packaging

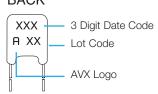
> See packaging specification pages 33-34



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)

Eli Conta deconocio Eli Tiono del Eli Villian Teoro (il Torneo)										
Style			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)						
		.508 (.020)			.508 (.020)					
Cap.	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	334K4R								

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

	Style	AR	15	AR20		AR21	
"Insertable"		AR07		AR29		AR59	
	Industry Preferred		WVDC		WVDC		DC
Cap. in pF	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

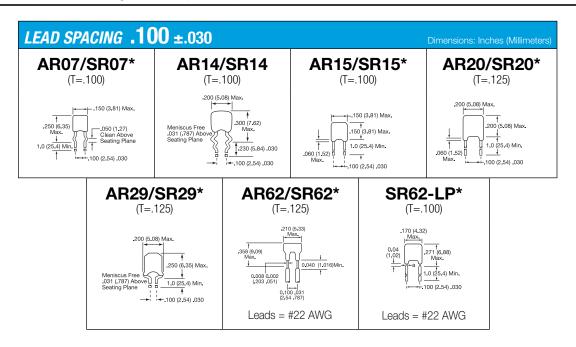
EIA CharacteristicDimensions: Millimeters (Inches)

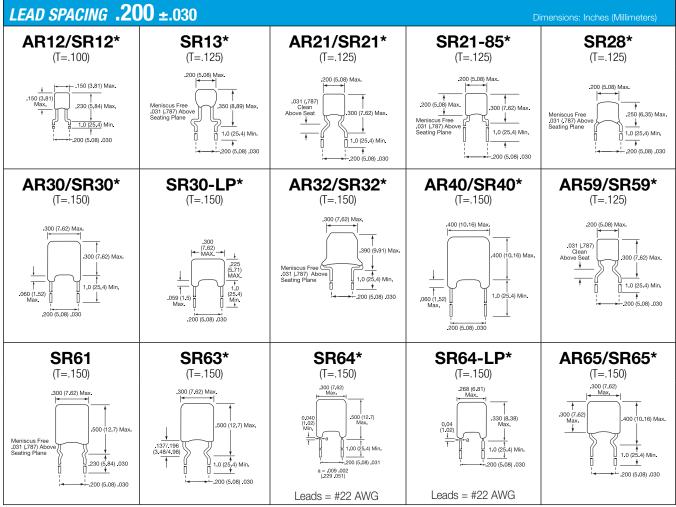
	Style	AR20	AR21	AR22	AR27	AR	30
	"Insertable"	AR29	AR59	N/A	N/A	AR	65
Cap.	Industry Preferred		WVDC	WVDC	WVDC	WV	/DC
in. pF	Values in Blue	1000	1000	1000	1000	2000	3000
470	ARC471K4R						
1000	ARC102K4R						
1500	ARC152K4R						
2200	ARC222K4R						
3300	ARC332K4R						
4700	ARC472K4R						
6800	ARC682K4R						
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

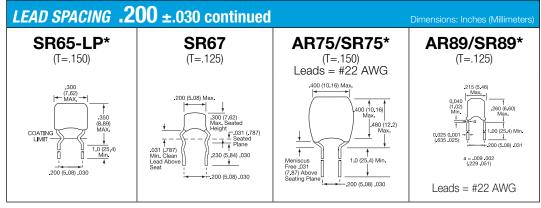


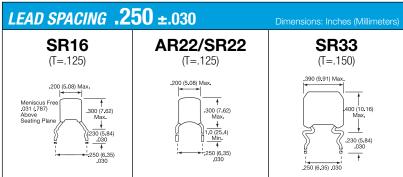


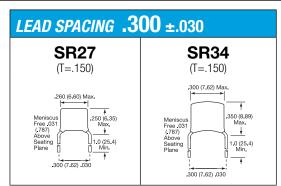


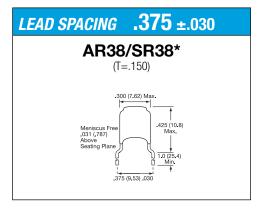
^{*}SL style available in all SR configurations.

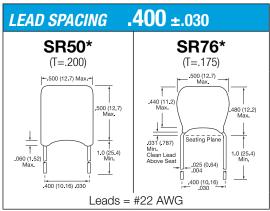












NOTES: 1. All leads are #24 AWG unless otherwise noted.

- 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.

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