RADIAL LEADS

SkyCap®/AR Series – Automotive

Ky<u>ocera</u> //////

KOHS COMPLIANT

GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

Temperature Coefficients: COG (NPO), X7R, X8R

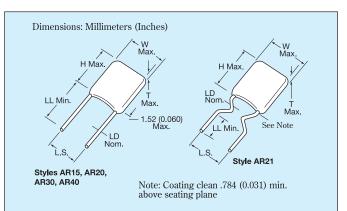
3000, 2000, 1000, 200, 100, 50 Volts

Case Material: Epoxy

Lead Material: RoHS Compliant, 100% Tin

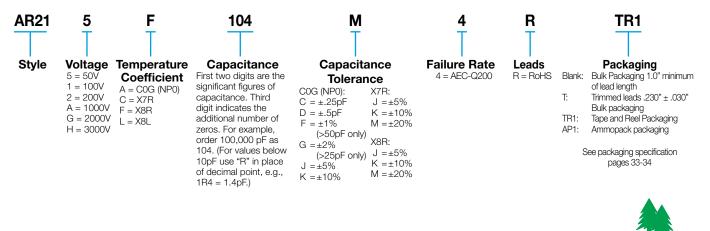
Qualified: to AEC-Q200, PPAP Available

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

FRONT

	Capacitance Code
	Tolerance Code
╻┍╼┧──	Voltage Code
i i	Temp. Char. Code

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.

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.



SIZE AND CAPACITANCE SPECIFICATIONS

EIA	Characteristic

Dimensions: Millimeters (Inches)

	Style		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			2.54			5.08		
	(L.S.)		(.100)			(.100)			(.200)		
	Lead Diameter		.508			.508			.508		
Con	(L.D.) Industry Preferred		(.020) WVDC			(.020) WVDC			(.020) WVDC		
Cap. in. pF	Values in Blue	200	100	, 50	200	100	50	200	100	50	
1	ARA1R0D4R	200			200	100		200	100		
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:

"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.

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X7R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic Dimensions: Millimeters (Inches)											
	Style	Style AR15 AR20 AR21 AR30 AI						AR	40		
	"Insertable"	AR	07	AR	29	AR	59	AR	AR65 A		75
	Width		3.81		5.08		5.08		52	10.16	
	(W)	(.150)		(.200)		(.200)		(.300)		(.4	00)
	Height	3.8	81	5.	5.08		08	7.0		10	.16
	(H)	(.15	50)	(.2	00)	(.20	00)	(.3	00)	(.4	00)
	Thickness	2.5		3.1			75	3.8		3.	
	(T)	(.10		(.12		(.12		(.15	<u> </u>		50)
	Lead Spacing	2.5		2.			08	5.		-	08
	(L.S.)	(.10		(.10		(.20		(.20		(.2	
	Lead Diameter	.50		.5		.5		.5		.5	
_	(L.D.)	(.02		(.0.	<u> </u>	(.0:		(.0:		(.0)	
Cap.	Industry Preferred Values in Blue	WV 100	DC 50	WV 100	DC 50	WV 100	DC 50	WV 100	DC 50	WV 100	DC 50
in. pF 470	ARC471K4R	100	50	100	50	100	50	100	50	100	50
1000	ARC471K4R										
1500	ARC102K4K ARC152K4R										
2200	ARC222K4R										
3300	ARC332K4R										i
4700	ARC472K4R										
6800	ARC682K4R										
10,000	ARC103K4R										[
15,000	ARC153K4R										1
22,000	ARC223K4R										
33,000	ARC333K4R										
47,000	ARC473K4R										
68,000	ARC683K4R										
100,000	ARC104K4R										
150,000	ARC154K4R										<u> </u>
220,000	ARC224K4R										
330,000	ARC334K4R										
390,000	ARC394K4R										
470,000	ARC474K4R										
680,000	ARC684K4R										
1.0 uF	ARC105K4R										
4,700,000 6,800,000	ARC475K4R ARC685K4R										
6,800,000 10.0 uF	ARC106K4R										
10.0 uF	ARC100K4K										Ĺ

= 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.

RADIAL LEADS

X8R Dielectric "F"

Kyocera /x///X

GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

Temperature Coefficients: COG (NPO), X7R, X8R

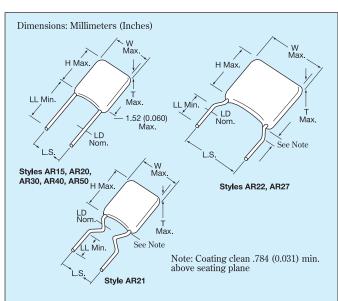
200, 100, 50 Volts

Case Material: Epoxy

Lead Material: Solderable

Qualified: to AEC-Q200

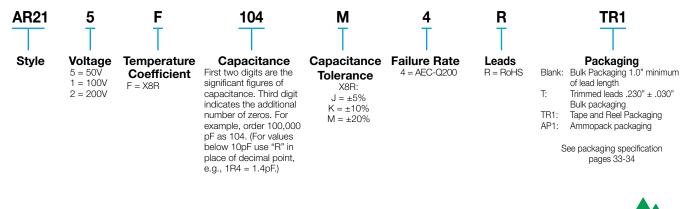
Temperature Range: up to 150°C



Drawings are for illustrative purposes only.

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

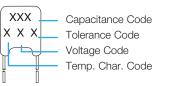






MARKING

FRONT



BACK



PACKAGING REQUIREMENTS

	Quantity per Bag							
AR15, 20, 21, 30	1000 Pieces							
AR40	500 Pieces							
Note: AR15 AR20 AR21 AR20 and AR40 systems and table on table and real par EIA								

KOHS COMPLIANT

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

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X8R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA CharacteristicDimensions: Millimeters (Inches)

Style AR20 AR21										
	"Insertable"		AR29			AR59				
	Width		5.08		5.08					
	(W)		(.200)			(.200)				
	Height		5.08			5.08				
	(H)		(.200)			(.200)				
Thickness			3.175			3.175				
	(.125)			(.125)						
	Lead Spacing		2.54			5.08				
	(L.S.)	(.100)			(.200)					
	Lead Diameter	.508			.508					
	(L.D.)	(.020)			(.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:

"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: AR14, AR62, AR89.



X8L Dielectric

STYLES AND CAPACITANCE SPECIFICATIONS

EIA Chacteristics

Style		AR	AR15		AR20		AR21	
"Ir	nsertable"	AR	AR07		AR29		59	
Cap. in pF	Industry Preferred	W٧	'DC	W٧	′DC	WV	DC	
	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							

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SIZE AND CAPACITANCE SPECIFICATIONS

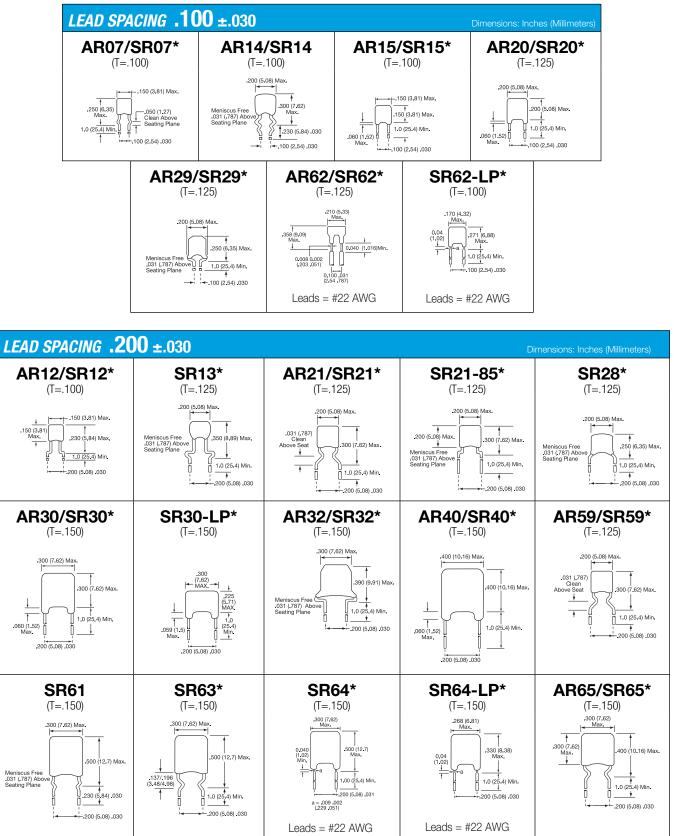
EIA CharacteristicDimensions: Millimeters (Inches)

	Style	AR20	AR21	AR22	AR27	AR	30
	"Insertable"	AR29	AR59	N/A	N/A	AR	65
Cap.	Industry Preferred	WVDC	WVDC	WVDC	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.

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RADIAL LEADS SkyCap[®] Configurations by Lead Spacing

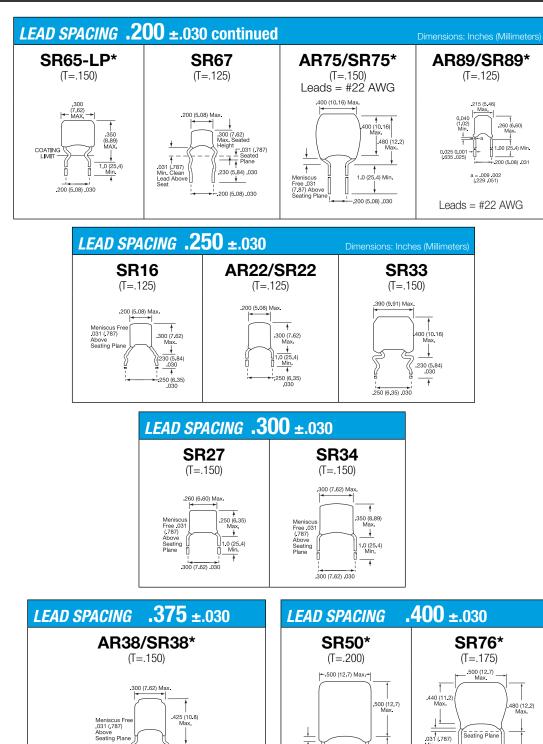


*SL style available in all SR configurations.

KUDCERA available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

KY<u>ocera</u>





3. Other styles are also available, contact factory. 4. (T = XXX) under type designation is maximum thickness in inches.

.400 (10.16) .030

*SL style available in all SR configurations.

1.0 (25.4) Min

.375 (9.53) .030

NOTES: 1. All leads are #24 AWG unless otherwise noted. 2. Available in tape and reel packaging(*).

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

Seating Plar

.025 (0.64) .004

1.0 (25.4) Min.

.031 (.787) Min. Clean Lead

Above Sea

Leads = #22 AWG

Π .400 (10.16)

1.0 (25.4) Min

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t

.060 (1.52) Max.

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