

SkyCap®/AR Automotive Series - COG (NPO) Dielectric

GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

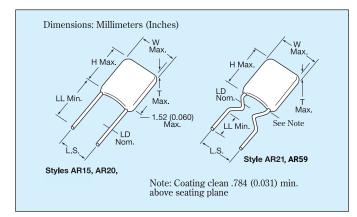
Temperature Coefficients: COG (NPO)

200, 100, 50 Volts

Case Material: Epoxy

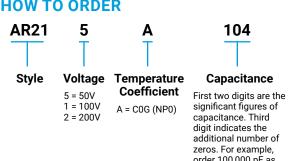
Lead Material: RoHS Compliant, 100% Tin Qualified: to AEC-Q200, PPAP Available

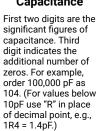
Temperature Range: up to 125°C

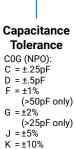


Drawings are for illustrative purposes only. Actual lead form shape could vary within stated tolerances based on body size.

HOW TO ORDER













Blank: Bulk Packaging 1.0" minimum of lead length

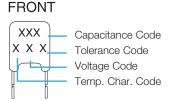
Trimmed leads .230" ± .030"

Bulk packaging Tape and Reel Packaging AP1: Ammopack packaging

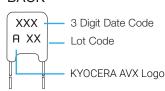
> See packaging specification pages 35-36



MARKING







PACKAGING REQUIREMENTS

	Quantity per Bag
AR15, 20, 21, 07, 29, 59	1000 Pieces

Note: AR15, 20, 21, 07, 29, and 59 are available on tape and reel per EIA specifications RS-468. See pages 35 and 36.



SkyCap®/AR Automotive Series - C0G (NPO) Dielectric

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) Height		(.150) 3.81		(.200)			(.200)			
	Height (H)		(.150)			5.08 (.200)			5.08 (.200)	
	Thickness		2.54			3.175			3.175	
	(T)		(.100)			(.125)			(.125)	
	Lead Spacing		2.54			2.54			5.08	
	(L.S.)		(.100 <u>)</u> .508			.100 <u>)</u> .508			(.200 <u>)</u> .508	
	Lead Diameter (L.D.)		(.020)			.306 (.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	ARA822K4R									

"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.





GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

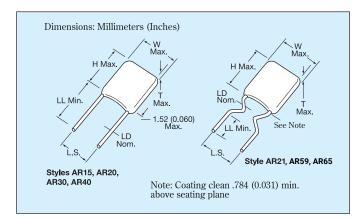
Temperature Coefficients: X7R

100, 50 Volts

Case Material: Epoxy

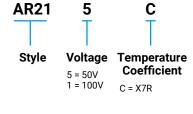
Lead Material: RoHS Compliant, 100% Tin Qualified: to AEC-Q200, PPAP Available

Temperature Range: up to 125°C



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

HOW TO ORDER



Capacitance

104

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.



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



4 = AEC-0200 R = RoHS



Blank: Bulk Packaging 1.0" minimum

of lead length Trimmed leads .230" ± .030"

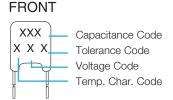
Bulk packaging Tape and Reel Packaging

AP1: Ammopack packaging

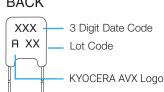
See packaging specification pages 33-34



MARKING



BACK



PACKAGING REQUIREMENTS

	Quantity per Bag
AR07, 15, 20, 29, 21, 59, 30, 65	1000 Pieces
AR40, 75	500 Pieces

Note: All styles above are available on tape and reel per EIA specifications RS-468. See pages 33 and 34.



SkyCap®/AR Automotive Series - X7R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic Dimensions: Millimeters (Inches)																	
EIA Character		AR	15	l ad	20					-							
	Style			AR20								AR30					
	"Insertable" Width	AR 3.8				AR59		AR65		AR75							
	wiath (W)	(.15		5.08 (.200)		5.08 (.200)		7.62 (.300)		10.16 (.400)							
	Height	3.8		-	08	5.0		7.6		10.							
	(H)	(.15		(.2		(.20		(.30		(.40							
	Thickness	2.5		3.1		3.1	_	3.8		3.8							
	(T)	(.10		(.12		(.12		(.15		(.15							
	Lead Spacing	2.5		2.		5.0		5.0		5.0							
	(L.S.)	(.10		(.10	00)	(.20	00)	(.20	00)	(.20	00)						
	Lead Diameter	.50	38	.50	08	.50	08	.50	38	.50	08						
	(L.D.)	(.02	20)	(.0:		(.0:		(.02		(.02	20)						
Сар.	Industry Preferred	WV		W۷		W۷	DC	W۷		W۷							
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	ARC472K4R																
6800	ARC682K4R																
10,000	ARC103K4R																
15,000	ARC153K4R																
22,000	ARC223K4R																
33,000	ARC333K4R							\vdash									
47,000 68,000	ARC473K4R ARC683K4R							$\vdash\vdash$									
100,000	ARC104K4R							\vdash									
150,000	ARC154K4R							\vdash									
220,000	ARC224K4R							\vdash									
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.



SkyCap®/AR Automotive Series - X7R Dielectric High Voltage

GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

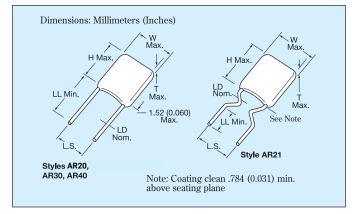
Temperature Coefficients: X7R

3000, 2000, 1000 Volts

Case Material: Epoxy

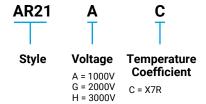
Lead Material: RoHS Compliant, 100% Tin Qualified: to AEC-Q200, PPAP Available

Temperature Range: up to 125°C



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

HOW TO ORDER



104 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.)

M

Capacitance **Tolerance** X7R· $J = \pm 5\%$

 $K = \pm 10\%$

 $M = \pm 20\%$

Failure Rate 4 = AEC-0200

Leads R = RoHS TR1

Packaging

Blank: Bulk Packaging 1.0" minimum of lead length Trimmed leads .230" ± .030"

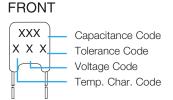
Bulk packaging

Tape and Reel Packaging AP1: Ammopack packaging

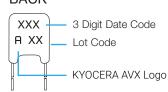
> See packaging specification pages 33-34



MARKING



BACK



PACKAGING REQUIREMENTS

	Quantity per Bag
AR20, 21, 30	1000 Pieces
AR40	500 Pieces

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



SkyCap®/AR Automotive Series - X7R Dielectric High Voltage

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: 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.



SkyCap®/AR Automotive Series - X8R Dielectric

GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

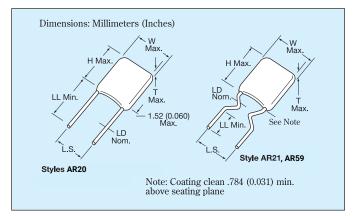
Temperature Coefficients: X8R

50 Volts

Case Material: Epoxy

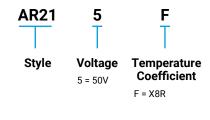
Lead Material: Solderable Qualified: to AEC-Q200

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.

HOW TO ORDER





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.)



Capacitance **Tolerance**

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



Failure Rate 4 = AEC-Q200

Leads R = RoHS



Packaging

Blank: Bulk Packaging 1.0" minimum of lead length

Trimmed leads .230" ± .030" **Bulk packaging**

Tape and Reel Packaging AP1: Ammopack packaging

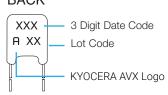
> See packaging specification pages 33-34



MARKING

FRONT XXX Capacitance Code X X XTolerance Code Voltage Code Temp. Char. Code

BACK



PACKAGING REQUIREMENTS

	Quantity per Bag
AR29, 20, 21, 59	1000 Pieces

Note: AR29, 20, 21, 59 are available on tape and reel per EIA specifications RS-468. See pages 33 and 34.



SkyCap®/AR Automotive Series - X8L Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

Style			AR20			AR21		
"Insertable"		AR29			AR59			
Width (W)			5.08 (.200)		5.08 (.200)			
Height (H)		5.08 (.200)		5.08 (.200)				
Thickness (T)					3.175 (.125)			
Lead Spacing (L.S.)		2.54 (.100)			5.08 (.200)			
	Lead Diameter (L.D.)		.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	000 ARF103K4R							
100,000	ARF104K4R							
330,000	ARF334K4R							

"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.





GENERAL INFORMATION

AR Series

Conformally Coated Radial Leaded MLC

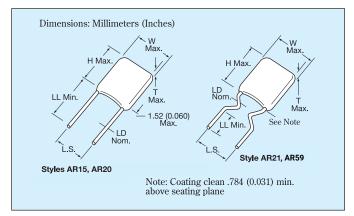
Temperature Coefficients: X8L

100, 50 Volts

Case Material: Epoxy

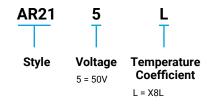
Lead Material: Solderable Qualified: to AEC-Q200

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.

HOW TO ORDER





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.)



Capacitance **Tolerance** X8L:

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



4 = AEC-Q200



Leads R = RoHS

Packaging

TR1

Blank: Bulk Packaging 1.0" minimum of lead length Trimmed leads .230" ± .030"

Bulk packaging

Tape and Reel Packaging AP1: Ammopack packaging

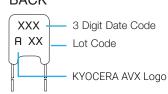
> See packaging specification pages 33-34



MARKING

FRONT XXX Capacitance Code X X XTolerance Code Voltage Code Temp. Char. Code





PACKAGING REQUIREMENTS

	Quantity per Bag
AR07, 15, 20, 29, 21, 59	1000 Pieces

Note: AR07, 15, 20, 29, 21, 59 are available on tape and reel per EIA specifications RS-468. See pages 33 and 34.



SkyCap®/AR Automotive Series - X8L Dielectric

STYLES AND CAPACITANCE SPECIFICATIONS

EIA Chacteristics

LIA CHACLEH									
111	Style			AR20 AR29		AR21 AR59			
	nsertable"	AR							
Cap. in pF	Industry Preferred Values	100	50	100	50	100	50		
470	ARL471K4R	100	30	100	30	100	30		
1,000	ARL102K4R								
1,500									
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								
1,500,000	ARL155K4R								
2,200,000	ARL225K4R								
3,300,000	ARL335K4R								

Mouser Electronics

Authorized Distributor

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KYOCERA AVX:

<u>SA105C102JAR</u> <u>SA101A470KAR</u> <u>SA052A2R7DAR</u> <u>SA051A1R5DAR</u> <u>SA101A1R0DAR</u> <u>SA101A680JAR</u> <u>SR155A150JAR</u> <u>SL291C104KAB</u> <u>SA305E224ZAR</u>