

Radial Leads/SkyCap®/AR Series



AUTOMOTIVE

GENERAL INFORMATION

AVX AR Series

Conformally Coated Radial Ledged MLC

Temperature Coefficients: COG (NP0), X7R, X8R

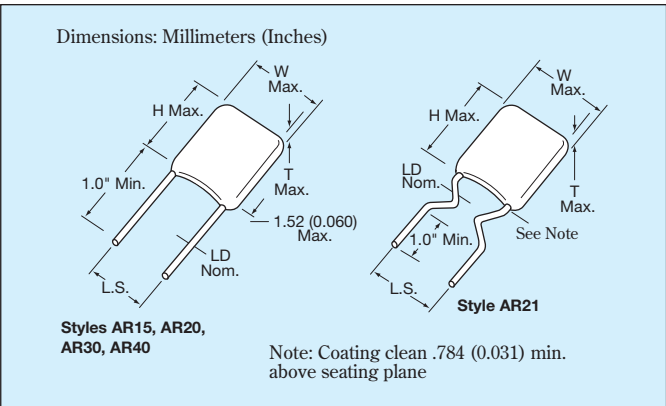
3000, 2000, 1000, 200, 100, 50 Volts

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.

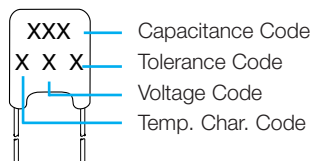
HOW TO ORDER

AR21	5	F	104	M	4	R	TR1
AVX Style	Voltage	Temperature Coefficient	Capacitance	Capacitance Tolerance	Failure Rate	Leads	Packaging
	5 = 50V 1 = 100V 2 = 200V A = 1000V G = 2000V H = 3000V	A = COG (NP0) C = X7R F = X8R	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)	COG (NP0): C = $\pm 0.25\text{pF}$ D = $\pm 0.5\text{pF}$ F = $\pm 1\%$ ($>50\text{pF}$ only) G = $\pm 2\%$ ($>25\text{pF}$ only) J = $\pm 5\%$ K = $\pm 10\%$ X7R: J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ X8R: J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	4 = AEC-Q200	R = RoHS Long Lead 1.0" minimum	Blank = Bulk Packaging T = Trimmed Leads .230" $\pm$.030" Bulk packaging TR1 = Tape and Reel Packaging AP1 = Ammopack Packaging See packaging specification page 33-34.

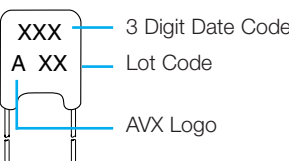


MARKING

FRONT



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.



Radial Leads/AR Series



C0G (NP0) Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

AVX Style		AR15			AR20			AR21		
AVX "Insertable"		AR07			AR29			AR59		
Width (W)		3.81 (.150)			5.08 (.200)			5.08 (.200)		
Height (H)		3.81 (.150)			5.08 (.200)			5.08 (.200)		
Thickness (T)		2.54 (.100)			3.175 (.125)			3.175 (.125)		
Lead Spacing (L.S.)		2.54 (.100)			2.54 (.100)			5.08 (.200)		
Lead Diameter (L.D.)		.508 (.020)			.508 (.020)			.508 (.020)		
Cap in pF	Industry Preferred Values in Blue	WVDC			WVDC			WVDC		
		200	100	50	200	100	50	200	100	50
1	AR.....A1R0D4R									
10	AR.....A100K4R									
15	AR.....A150K4R									
22	AR.....A220K4R									
33	AR.....A330K4R									
39	AR.....A390K4R									
47	AR.....A470K4R									
68	AR.....A680K4R									
100	AR.....A101K4R									
150	AR.....A151K4R									
220	AR.....A221K4R									
330	AR.....A331K4R									
390	AR.....A391K4R									
470	AR.....A471K4R									
680	AR.....A681K4R									
1,000	AR.....A102K4R									
1,500	AR.....A152K4R									
2,200	AR.....A222K4R									
3,900	AR.....A392K4R									
4,700	AR.....A472K4R									
6800	AR.....A682K4R									
8200	AR.....A822K4R									

Notes:

"Insertable" make reference to alternative 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.



Radial Leads/AR Series

X7R Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic Dimensions: Millimeters (Inches)

	AVX Style	AR15	AR20	AR21	AR30	AR40
	AVX "Insertable"	AR07	AR29	AR59	AR65	AR75
	Width (W)	3.81 (.150)	5.08 (.200)	5.08 (.200)	7.62 (.300)	10.16 (.400)
	Height (H)	3.81 (.150)	5.08 (.200)	5.08 (.200)	7.62 (.300)	10.16 (.400)
	Thickness (T)	2.54 (.100)	3.175 (.125)	3.175 (.125)	3.81 (.150)	3.81 (.150)
	Lead Spacing (L.S.)	2.54 (.100)	2.54 (.100)	5.08 (.200)	5.08 (.200)	5.08 (.200)
	Lead Diameter (L.D.)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)
Cap in pF	Industry Preferred Values in Blue	WVDC 100 50	WVDC 100 50	WVDC 100 50	WVDC 100 50	WVDC 100 50
470	AR....C471K4R					
1000	AR....C102K4R					
1500	AR....C152K4R					
2200	AR....C222K4R					
3300	AR....C332K4R					
4700	AR....C472K4R					
6800	AR....C682K4R					
10,000	AR....C103K4R					
15,000	AR....C153K4R					
22,000	AR....C223K4R					
33,000	AR....C333K4R					
47,000	AR....C473K4R					
68,000	AR....C683K4R					
100,000	AR....C104K4R					
150,000	AR....C154K4R					
220,000	AR....C224K4R					
330,000	AR....C334K4R					
390,000	AR....C394K4R					
470,000	AR....C474K4R					
680,000	AR....C684K4R					
1.0 uF	AR....C105K4R					
4,700,000	AR....C475K4R					
6,800,000	AR....C685K4R					
10.0 uF	AR....C106K4R					

 = Extended range with 0.150" thickness maximum

Notes:

"Insertable" make reference to alternative 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/AR Series

X8R Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic		Dimensions: Millimeters (Inches)					
AVX Style		AR20			AR21		
AVX "Insertable"		AR29			AR59		
Width (W)		5.08 (.200)			5.08 (.200)		
Height (H)		5.08 (.200)			5.08 (.200)		
Thickness (T)		3.175 (.125)			3.175 (.125)		
Lead Spacing (L.S.)		2.54 (.100)			5.08 (.200)		
Lead Diameter (L.D.)		.508 (.020)			.508 (.020)		
Cap in pF	Industry Preferred Values in Blue	WVDC			WVDC		
		200	100	50	200	100	50
1,000	AR.....F102K4R						
10,000	AR.....F103K4R						
100,000	AR.....F104K4R						
330,000	AR.....F334K4R						

Notes:
 "Insertable" make reference to alternative 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.

High Voltage Automotive Product SkyCap Capacitors



X7R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

	AVX Style	AR20	AR21	AR22	AR27	AR30
	AVX "Insertable"	AR29	AR59	N/A	N/A	AR65
Cap in pF	Industry Preferred Values in Blue	WVDC 1000	WVDC 1000	WVDC 1000	WVDC 1000	WVDC 2000 3000
470	AR.....C471K4R					
1000	AR.....C102K4R					
1500	AR.....C152K4R					
2200	AR.....C222K4R					
3300	AR.....C332K4R					
4700	AR.....C472K4R					
6800	AR.....C682K4R					
10,000	AR.....C103K4R					
15,000	AR.....C153K4R					
22,000	AR.....C223K4R					
47,000	AR.....C473K4R					
68,000	AR.....C683K4R					

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



Mouser Electronics

Authorized Distributor

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

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](#)