# **RADIAL LEADS**

# SkyCap<sup>®</sup>/AR Series – Automotive

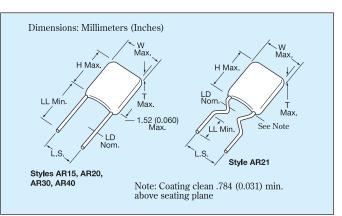


OHS COMPLIANT

### **GENERAL INFORMATION**

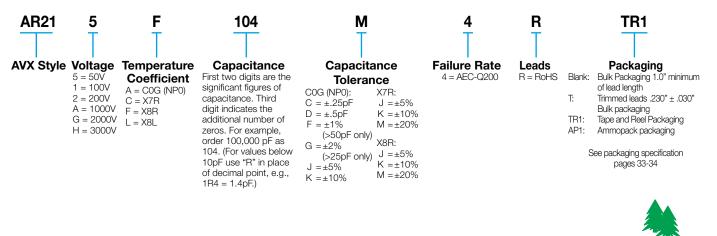
**AVX AR Series Conformally Coated Radial Leaded MLC** Temperature Coefficients: COG (NPO), X7R, X8R 3000, 2000, 1000, 200, 100, 50 Volts Case Material: Epoxy Lead Material: RoHS Compliant, 100% Tin Qualified: to AEC-Q200, PPAP Available

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**

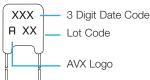


## MARKING

#### FRONT

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🛛 xxx 🖵	<ul> <li>Capacitance Code</li> </ul>
X X X	Tolerance Code
┟┍╼╷┤	<ul> <li>Voltage Code</li> </ul>
	- Temp. Char. Code
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# 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.





### SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)

AVX Style			<b>AR15</b>			AR20			AR21	
	AVX "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 (.020)			.508 (.020)			.508 (.020)	
Cap.	(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	100	30	200	100	50	200	100	50
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 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.





# **X7R Dielectric**

### SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteri						Di	imensi	ons: M	illimete	ers (Inc	hes)	
AVX Style			15	AR	AR20 AR21		AR30		AR40			
	AVX "Insertable"	AR	07	AR	29	AR59		AR65		AR75		
	Width		3.81		5.08		5.08		7.62		10.16	
	(W)		(.150)		(.200)		00)	<u>`</u>	00)	(.400)		
	Height	3.8		5.			08	7.			.16	
	(H)	(.15		(.2		<u> </u>	00)	(.3		``	00)	
	Thickness	2.5		3.1		-	75	3.		-	81	
	(T) Lead Spacing	(.10		(.12		(.12	23) 08	(.1: 5.	<u> </u>	(.1	08	
	Lead Spacing (L.S.)	2.: (.10		(.10		5. (.2		5. (.2		5. (.2		
	Lead Diameter	.50		.5		<u> </u>	08	.5		,	08	
	(L.D.)	(.02		(.0		(.0		(.0		(.0		
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	ARC472K4R											
6800	ARC682K4R											
10,000	ARC103K4R											
15,000	ARC153K4R											
22,000	ARC223K4R											
33,000	ARC333K4R											
47,000	ARC473K4R											
68,000	ARC683K4R											
100,000	ARC104K4R							L				
150,000	ARC154K4R										<u> </u>	
220,000	ARC224K4R											
330,000	ARC334K4R											
390,000	ARC394K4R					<u> </u>		<u> </u>		<u> </u>		
470,000	ARC474K4R											
680,000	ARC684K4R											
1.0 uF	ARC105K4R										<u> </u>	
4,700,000	ARC475K4R											
6,800,000 <b>10.0 uF</b>	ARC685K4R											
10.0 uF	ARC106K4R										Ĺ	

= 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**

# X8R Dielectric "F"



### **GENERAL INFORMATION**

**AVX AR Series** 

#### **Conformally Coated Radial Leaded MLC**

Temperature Coefficients: COG (NPO), X7R, X8R

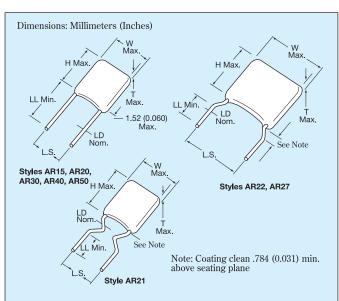
200, 100, 50 Volts

Case Material: Epoxy

Lead Material: Solderable

Qualified: to AEC-Q200

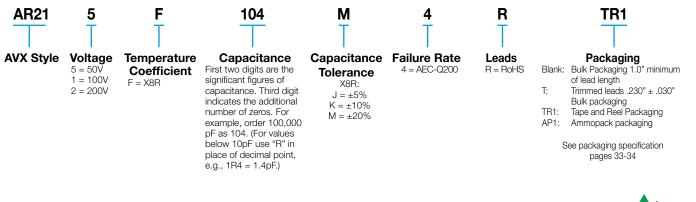
Temperature Range: up to 150°C



Drawings are for illustrative purposes only.

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

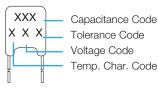






### MARKING

#### FRONT



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le	XXX - FIXX	<ul> <li>3 Digit Date Code</li> <li>Lot Code</li> </ul>
le		AVX Logo

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# **PACKAGING REQUIREMENTS**

	Quantity per Bag					
AR15, 20, 21, 30	1000 Pieces					
AR40	500 Pieces					
Note: AB15 AB20 AB21 AB30 and AB40 available on tane and real per EIA						

() and AR4 on tape and reel per EIA specifications RS-468. See pages 33 and 34.





## **X8R Dielectric**

## SIZE AND CAPACITANCE SPECIFICATIONS

EIA CharacteristicDimensions: Millimeters (Inches)

	AVX Style			AR20				
	AR29			AR59				
		5.08		5.08				
	(W)		(.200)		(.200)			
	Height		5.08		5.08			
	(H)		(.200)			(.200)		
	Thickness		3.175		3.175			
	(T)	(.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							
Nataa								

#### 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.



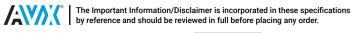


# X8L Dielectric

# STYLES AND CAPACITANCE SPECIFICATIONS

**EIA Chacteristics** 

	AVX Style	AR	15	AR	20	AR	21
AVX	"Insertable"	AR	AR07		29	AR	59
Cap. in pF	Industry Preferred	W٧	′DC	WVDC		WVDC	
Cap. III pi	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						





### SIZE AND CAPACITANCE SPECIFICATIONS

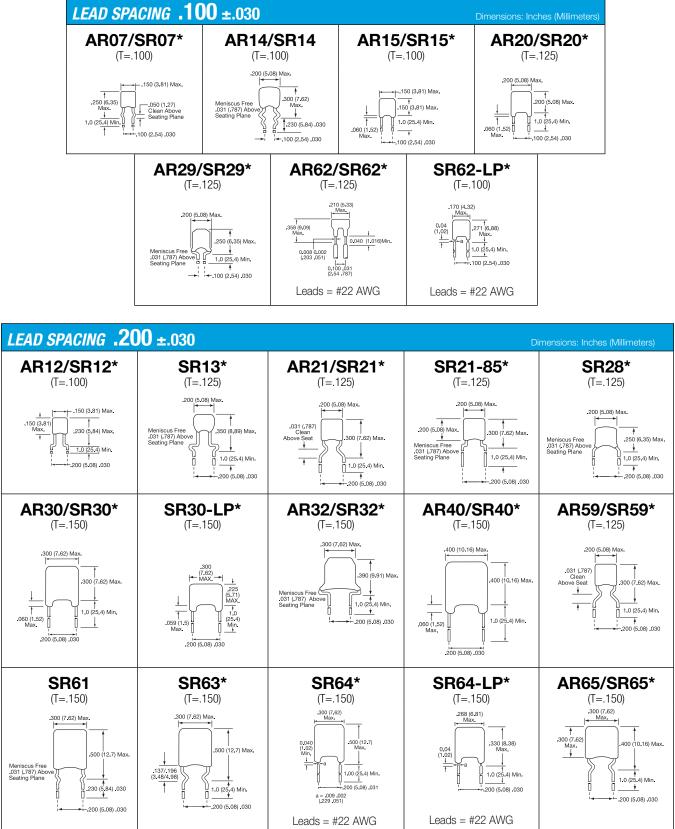
EIA CharacteristicDimensions: Millimeters (Inches)

	AVX Style	AR20	AR21	AR22	AR27	AR	30
	AVX "Insertable"	AR29	AR59	N/A	N/A	AR	65
Cap.	Industry Preferred	WVDC	WVDC	WVDC	WVDC	W٧	/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.



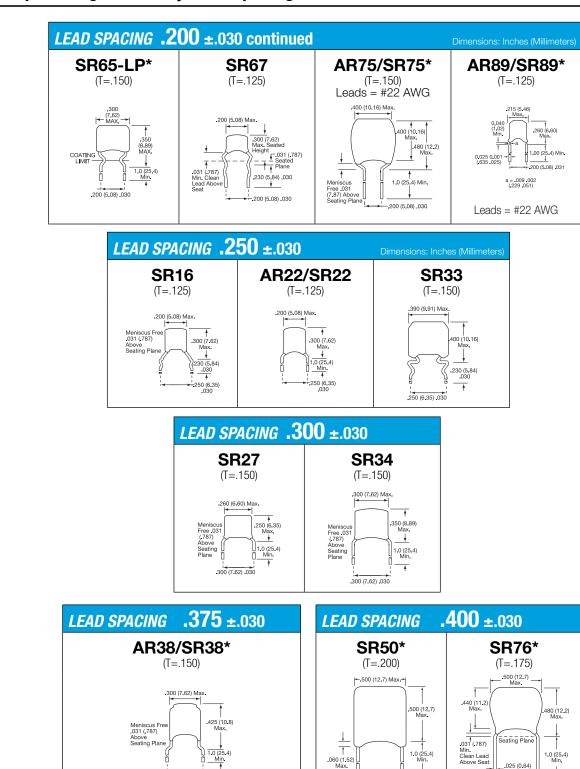
# **RADIAL LEADS** SkyCap<sup>®</sup> Configurations by Lead Spacing



\*SL style available in all SR configurations.

The Important Information/Disclaimer is incorporated in these specifications by reference and should be reviewed in full before placing any order.





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

.375 (9.53) .030

- 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.

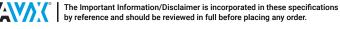
\*SL style available in all SR configurations.

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

.025 (0.64) .004

[] .400 (10.16)

Leads = #22 AWG



.400 (10.16) .030



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