Radial Leads/SkyCap®

GENERAL INFORMATION

AVX SR Series

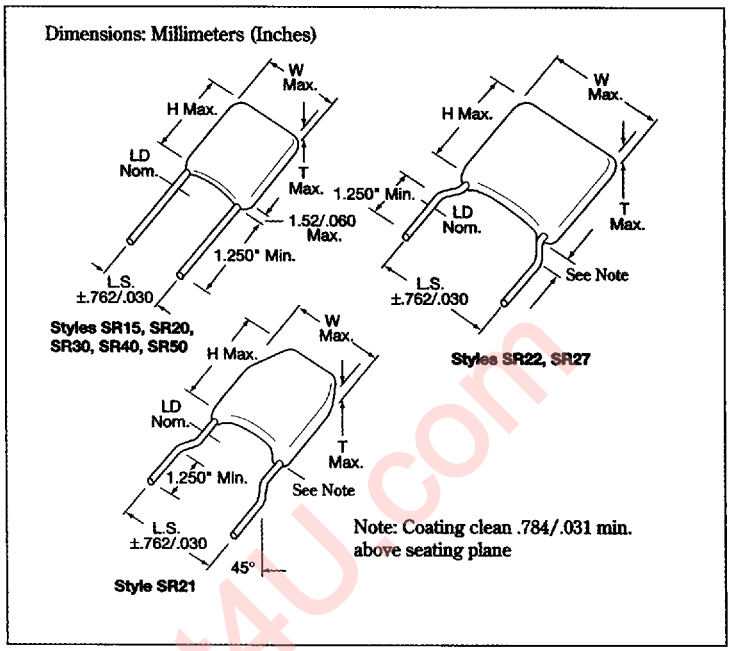
Conformally Coated Radial Leaded MLC

Temperature Coefficients: NP0, X7R, Z5U

200, 100, 50 Volts (300V, 400V & 500V also available)

Case Material: Epoxy

Lead Material: Solderable



HOW TO ORDER

AVX Styles: SR15, SR20, SR21, SR22, SR27, SR30, SR40, SR50

Part Number Example

SR21	5	E	10	4	M	A	A

AVX Style
Voltage
Temperature Coefficient
Sig. Figures of Capacitance
Multiplier (Additional no. of zeros)
Capacitance Tolerance
Failure Rate Not Applicable
Leads

Part Number Codes

Voltages: 50V = 5, 100V = 1, 200V = 2,
300V = 9, 400V = 8, 500V = 7

Temp. Coefficient: NP0 = A, X7R = C, Z5U = E

Sig. Figures of Capacitance and Multiplier:
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 = 1.4 pF).

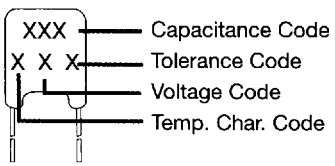
Capacitance Tolerances:
NP0: C = ±.25pF, D = ±.5pF, F = ±1.0% (>50 pF only), G = ±2.0% (>25 pF only), J = ±5%, K = ±10%
X7R: J = ±5%, K = ±10%, M = ±20%
Z5U: M = ±20%, Z = +80%,-20%
Tolerance Codes F and G are not available in SR15.

Failure Rate: A = Not Applicable

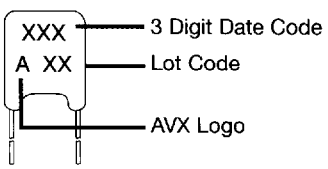
Leads: T = Trimmed Leads, .230" ± .030"
A = Long Leads, 1.25" minimum

MARKING

FRONT



BACK



PACKAGING REQUIREMENTS

	Quantity per Bag
SR15, 20, 21, 22, 27, 30	1000 Pieces
SR40, 50	500 Pieces

Note: SR15, SR20, SR21, SR30, and SR40 available on tape and reel per EIA specifications RS-468. See Pages 24 and 25.

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

	AVX Style	SR15	SR20	SR21	SR22	SR27	SR30	SR40	SR50
	AVX "Insertable"	**SR07**	**SR29**	**SR59**	**N/A**	**N/A**	**SR65**	**SR75**	**N/A**
	Width (W)	3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.604 (.260)	7.62 (.300)	10.16 (.400)	12.70 (.500)
	Height (H)	3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.35 (.250)	7.62 (.300)	10.16 (.400)	12.70 (.500)
	Thickness (T)	2.54 (.100)	3.175 (.125)	3.175 (.125)	3.175 (.125)	4.06 (.160)	3.81 (.150)	3.81 (.150)	5.08 (.200)
	Lead Spacing (L.S.)	2.54 (.100)	2.54 (.100)	5.08 (.200)	6.35 (.250)	7.62 (.300)	5.08 (.200)	5.08 (.200)	10.16 (.400)
	Lead Diameter (L.D.)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.635 (.025)
Cap. in.* pF	**Industry Preferred Values in Blue**	**WVDC** 200 100 50	**WVDC** 200 100 50	**WVDC** 200 100 50	**WVDC** 200 100 50	**WVDC** 200 100 50	**WVDC** 100 50	**WVDC** 100 50	**WVDC** 100 50
1.0-9.9	SR151A1R0DAA	■							
10	**SR151A100KAA**	■							
15	SR_____A150KAA	■							
22	SR_____A220KAA		▨						
33	SR_____A330KAA		▨						
39	SR_____A390KAA		▨						
47	SR_____A470KAA		▨						
68	SR_____A680KAA		▨						
100	**SR151A101KAA**	■	▨						
150	SR_____A151KAA		▨						
220	SR_____A221KAA		▨						
330	SR_____A331KAA		▨						
390	SR_____A391KAA								
470	SR_____A471KAA								
680	SR_____A681KAA								
1000	**SR211A102KAA**			■		■			
1500	SR_____A152KAA			■		■			
2200	SR_____A222KAA			■		■			
3900	SR_____A392KAA								
4700	SR_____A472KAA								
6800	SR_____A682KAA								
8200	SR-----A822KAA								
10,000	**SR305A103KAA**						■		
15,000	SR-----A153KAA						■		
22,000	SR_____A223KAA								
33,000	SR_____A333KAA								
39,000	SR_____A393KAA								
47,000	SR_____A473KAA								
68,000	SR_____A683KAA								
100,000	SR_____A104KAA								

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

***Other capacitance values available upon special request.**

■ = **Industry preferred values**

▨ = **Available in tight tolerances only**

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

AVX Style	SR15		SR20		SR21		SR22		SR27		SR30		SR40		SR50	
AVX "Insertable"	**SR07**		**SR29**		**SR59**		**N/A**		**N/A**		**SR65**		**SR75**		**N/A**	
Width (W)	3.81 (.150)		5.08 (.200)		5.08 (.200)		5.08 (.200)		6.604 (.260)		7.62 (.300)		10.16 (.400)		12.70 (.500)	
Height (H)	3.81 (.150)		5.08 (.200)		5.08 (.200)		5.08 (.200)		6.35 (.250)		7.62 (.300)		10.16 (.400)		12.70 (.500)	
Thickness (T)	2.54 (.100)		3.175 (.125)		3.175 (.125)		3.175 (.125)		4.06 (.160)		3.81 (.150)		3.81 (.150)		5.08 (.200)	
Lead Spacing (L.S.)	2.54 (.100)		2.54 (.100)		5.08 (.200)		6.35 (.250)		7.62 (.300)		5.08 (.200)		5.08 (.200)		10.16 (.400)	
Lead Diameter (L.D.)	.508 (.020)		.508 (.020)		.508 (.020)		.508 (.020)		.508 (.020)		.508 (.020)		.508 (.020)		.635 (.025)	
Cap. in.* pF **Industry Preferred Values in Blue**	**WVDC** 100	50	**WVDC** 100	50	**WVDC** 100	50	**WVDC** 100	50	**WVDC** 100	50	**WVDC** 100	50	**WVDC** 100	50	**WVDC** 100	50
470 SR_____C471KAA																
1000 SR155C102KAA		■														
1500 SR_____C152KAA																
2200 SR_____C222KAA																
3300 SR_____C332KAA																
4700 SR_____C472KAA																
6800 SR_____C682KAA																
10,000 SR215C103KAA		■				■										
15,000 SR_____C153KAA																
22,000 SR_____C223KAA																
33,000 SR_____C333KAA																
47,000 SR_____C473KAA																
68,000 SR_____C683KAA																
100,000 SR215C104KAA				■		■										
150,000 SR_____C154KAA																
220,000 SR215C224KAA				■		■										
330,000 SR_____C334KAA																
390,000 SR_____C394KAA																
470,000 SR305C474KAA												■				
1.0 µF SR305C105KAA													■			
2.2 µF SR405C225KAA																
2.7 µF SR505C275KAA																
4.7 µF SR505C475KAA																

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

***Other capacitance values available upon special request.**

■ = Industry preferred values

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

AVX Style	SR15	SR20	SR21	SR22	SR27	SR30	SR40	SR50
AVX "Insertable"	SR07	SR29	SR59	N/A	N/A	SR65	SR75	N/A
Width (W)	3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.604 (.260)	7.62 (.300)	10.16 (.400)	12.70 (.500)
Height (H)	3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.35 (.250)	7.62 (.300)	10.16 (.400)	12.70 (.500)
Thickness (T)	2.54 (.100)	3.175 (.125)	3.175 (.125)	3.175 (.125)	4.06 (.160)	3.81 (.150)	3.81 (.150)	5.08 (.200)
Lead Spacing (L.S.)	2.54 (.100)	2.54 (.100)	5.08 (.200)	6.35 (.250)	7.62 (.300)	5.08 (.200)	5.08 (.200)	10.16 (.400)
Lead Diameter (L.D.)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.635 (.025)

Cap. in.* pF	Industry Preferred Values in Blue	WVDC 100	WVDC 50	WVDC 100	WVDC 50	WVDC 100	WVDC 50	WVDC 100	WVDC 50	WVDC 100	WVDC 50	WVDC 100	WVDC 50	WVDC 100	WVDC 50	WVDC 100	WVDC 50
10,000	**SR155E103ZAA**		■														
47,000	SR_____E473ZAA																
100,000	**SR215E104ZAA**				■		■										
150,000	SR_____E154ZAA																
220,000	**SR215E224ZAA**						■										
330,000	**SR215E334ZAA**																
470,000	**SR215E474ZAA**				■		■										
680,000	SR_____E684ZAA																
1.0 µF	**SR305E105ZAA**																
1.5 µF	SR_____E155ZAA																
2.2 µF	SR_____E225ZAA																
3.3 µF	SR_____E335ZAA																
4.7 µF	SR_____E475ZAA																

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

***Other capacitance values available upon special request.**

■ = Industry preferred values

*AVX 500 VOLT SKYCAPS***

STYLE*	MAXIMUM CAPACITANCE VALUE	
	NP0	X7R
SR29	900 pF	.015 µF
SR20	1800 pF	.033 µF
SR28 SR59	900 pF	.015 µF
SR13 SR21	1800 pF	.033 µF
SR30 SR61 SR65	7200 pF	.12 µF
SR40 SR75	.015 µF	.27 µF
SR22	1800 pF	.033 µF
SR27	1800 pF	.033 µF
SR76	.015 µF	.27 µF
SR50	.036 µF	.59 µF

*Consult pages 18 and 19 for style sizes.

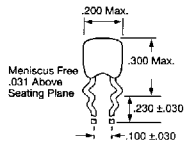
**Voltage rating based on DWV of 150% of rated voltage.

Configurations by Lead Spacing

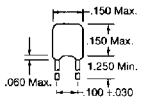
LEAD SPACING .100 ±.030

Dimensions: Millimeters (Inches)

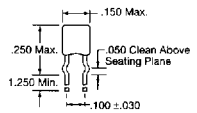
SR14
(T=.125)



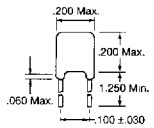
SR15*
(T=.100)



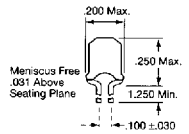
SR07*
(T=.100)



SR20*
(T=.125)



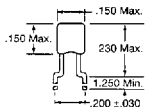
SR29*
(T=.125)



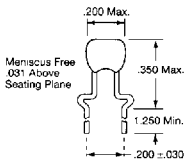
LEAD SPACING .200 ±.030

Dimensions: Millimeters (Inches)

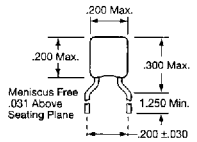
SR12*
(T=.125)



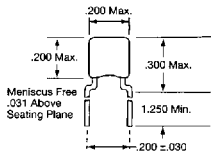
SR13*
(T=.125)



SR21*
(T=.125)



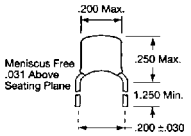
SR21-85*
(T=.125)



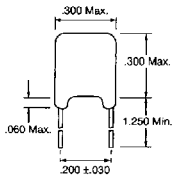
LEAD SPACING .200 ±.030

Dimensions: Millimeters (Inches)

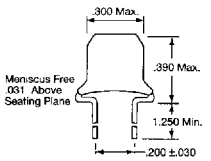
SR28*
(T=.125)



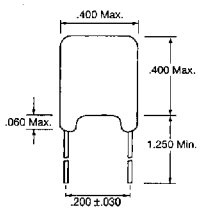
SR30*
(T=.150)



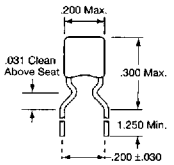
SR32*
(T=.150)



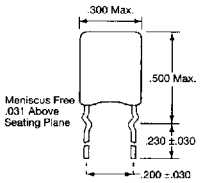
SR40*
(T=.150)



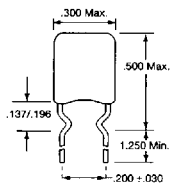
SR59*
(T=.125)



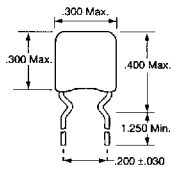
SR61
(T=.150)



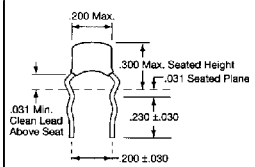
SR63*
(T=.150)



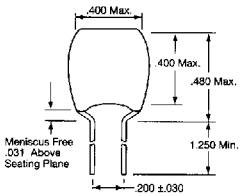
SR65*
(T=.150)



SR67
(T=.125)



SR75*
(T=.150)
Leads = #22AWG



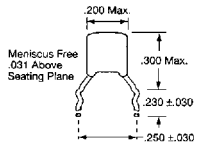
NOTES:

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.

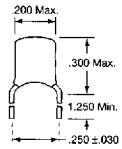
Configurations by Lead Spacing

LEAD SPACING .250 ±.030

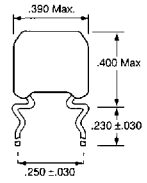
SR16
(T=.125)



SR22
(T=.125)

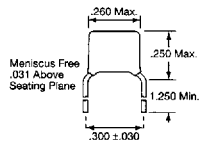


SR33
(T=.150)

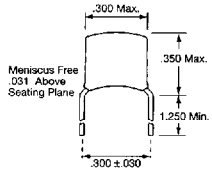


LEAD SPACING .300 ±.030

SR27
(T=.150)

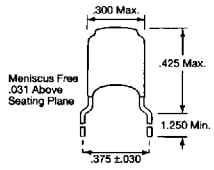


SR34
(T=.150)



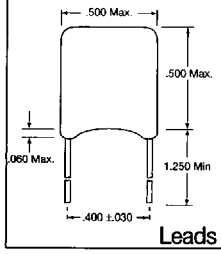
LEAD SPACING .375 ±.030

SR38
(T=.150)

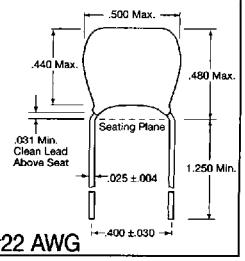


LEAD SPACING .400 ±.030

SR50
(T=.200)



SR76
(T=.175)



Leads = #22 AWG

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.