

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[AVX Corporation](#)
[SR305E105MAA](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

Radial Leads/SkyCap®/SR Series



GENERAL INFORMATION

AVX SR Series

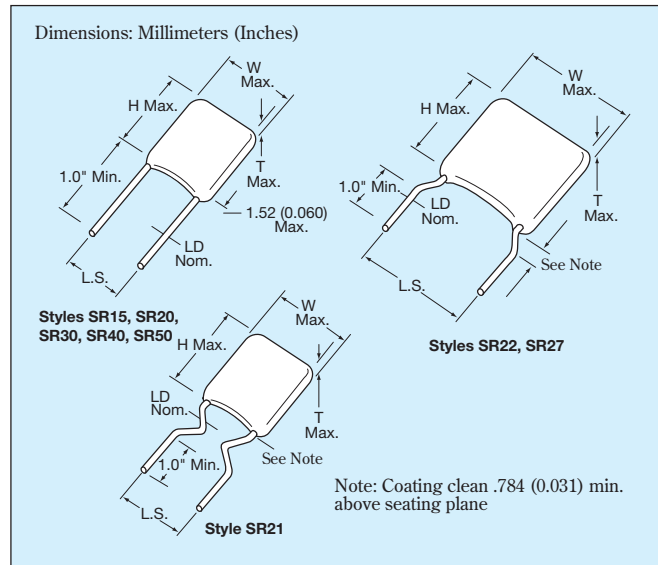
Conformally Coated Radial Ledged MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: RoHS Compliant, 100% Tin



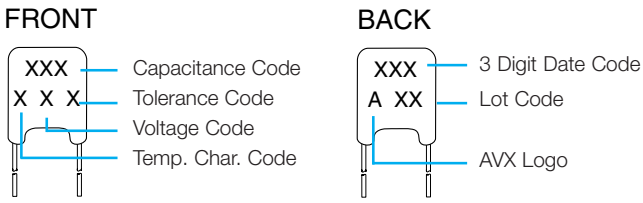
HOW TO ORDER

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

SR21	5	E	104	M	A	R	TR1
AVX Style	Voltage	Temperature Coefficient	Capacitance	Capacitance Tolerance	Failure Rate	Leads	Packaging
SR15 SR20 SR21 SR22 SR27 SR30 SR40 SR50	5 = 50V 1 = 100V 2 = 200V 9 = 300V 8 = 400V 7 = 500V	A = C0G (NP0) C = X7R E = Z5U	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)	C0G (NP0): C = ±.25pF D = ±.5pF F = ±1% (>50pF only) G = ±2% (>25pF only) J = ±5% K = ±10%	X7R: J = ±5% K = ±10% M = ±20% Z5U: M = ±20% Z = +80% -20%	A = Not Applicable R = RoHS Long Lead 1.0" minimum	Blank = Bulk Packaging T = Trimmed Leads .230"± .030" Bulk packaging TR1 = Tape and Reel Packaging AP1 = Ammopack Packaging See packaging specification page 33-34.



MARKING



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 33 and 34.

Radial Leads/SkyCap®/SR Series

C0G (NP0) Dielectric



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			5.08			5.08			5.08			5.08			6.604			7.62			10.16			12.70			
Height (H)		3.81			5.08			5.08			5.08			5.08			6.35			7.62			10.16			12.70			
Thickness (T)		2.54			3.175			3.175			3.175			3.175			4.06			3.81			3.81			5.08			
Lead Spacing (L.S.)		2.54			2.54			5.08			6.35			7.62			5.08			5.08			5.08			10.16			
Lead Diameter (L.D.)		.508			.508			.508			.508			.508			.508			.508			.508			.635			
Cap. in.* Industry Preferred Values in Blue	pF	WVDC			WVDC			WVDC			WVDC			WVDC			WVDC		WVDC		WVDC		WVDC		WVDC				
		200	100	50	200	100	50	200	100	50	200	100	50	200	100	50	200	100	50	100	50	100	50	100	50	100	50	100	50
1.0-9.9	SR151A1R0DAR																												
10	SR151A100KAR																												
15	SR....A150KAR																												
22	SR....A220KAR																												
33	SR....A330KAR																												
39	SR....A390KAR																												
47	SR....A470KAR																												
68	SR....A680KAR																												
100	SR151A101KAR																												
150	SR....A151KAR																												
220	SR....A221KAR																												
330	SR....A331KAR																												
390	SR....A391KAR																												
470	SR....A471KAR																												
680	SR....A681KAR																												
1000	SR211A102KAR																												
1500	SR....A152KAR																												
2200	SR....A222KAR																												
3900	SR....A392KAR																												
4700	SR....A472KAR																												
6800	SR....A682KAR																												
8200	SR....A822KAR																												
10,000	SR305A103KAR																												
15,000	SR....A153KAR																												
22,000	SR....A223KAR																												
33,000	SR....A333KAR																												
39,000	SR....A393KAR																												
47,000	SR....A473KAR																												
68,000	SR....A683KAR																												
100,000	SR....A104KAR																												

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
- = SR20 only

Capacitance ranges available for SR12 and SR07 same as SR15
 SR62 and SR59 same as SR21
 SR64 and SR65 same as SR30
 SR75 same as SR40
 SR13 same as SR21

NOTE: For others voltages, tolerances, electrical specifications and NPO typical characteristics, see the AVX Multilayer Ceramic Leaded Capacitors Catalog.

Radial Leads/SkyCap®/SR Series

X7R Dielectric



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)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.604 (.260)	6.604 (.260)	7.62 (.300)	7.62 (.300)	7.62 (.300)	7.62 (.300)	7.62 (.300)	7.62 (.300)	7.62 (.300)	7.62 (.300)	7.62 (.300)	10.16 (.400)	10.16 (.400)	10.16 (.400)	10.16 (.400)	12.70 (.500)	12.70 (.500)	12.70 (.500)					
Height (H)		3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)	6.35 (.250)					
Thickness (T)		2.54 (.100)	3.175 (.125)	3.175 (.125)	3.175 (.125)	3.175 (.125)	3.175 (.125)	3.175 (.125)	3.175 (.125)	3.175 (.125)	3.175 (.125)	3.175 (.125)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)	4.06 (.160)					
Lead Spacing (L.S.)		2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)	2.54 (.100)					
Lead Diameter (L.D.)		.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)					
Cap. in.* Industry Preferred pF	Values in Blue	WVDC			WVDC			WVDC			WVDC		WVDC		WVDC			WVDC			WVDC														
		200	100	50	200	100	50	200	100	50	100	50	100	50	100	50	200	100	50	200	100	50	200	100	50	200	100	50	200	100	50				
470	SR.....C471KAR																																		
1000	SR155C102KAR																																		
1500	SR.....C152KAR																																		
2200	SR.....C222KAR																																		
3300	SR.....C332KAR																																		
4700	SR.....C472KAR																																		
6800	SR.....C682KAR																																		
10,000	SR215C103KAR																																		
15,000	SR.....C153KAR																																		
22,000	SR.....C223KAR																																		
33,000	SR.....C333KAR																																		
47,000	SR.....C473KAR																																		
68,000	SR.....C683KAR																																		
100,000	SR215C104KAR																																		
150,000	SR.....C154KAR																																		
220,000	SR215C224KAR																																		
330,000	SR.....C334KAR																																		
390,000	SR.....C394KAR																																		
470,000	SR305C474KAR																																		
1.0 uF	SR305C105KAR																																		
2.2 uF	SR405C225KAR																																		
2.7 uF	SR505C275KAR																																		
4.7 uF	SR505C475KAR																																		
10.0 uF	SR655C106KAR																																		

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

- = Industry preferred values
- = Extended range
- = Extended range with 0.150" thickness maximum

Radial Leads/SkyCap®/SR Series

Z5U Dielectric



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.* Industry Preferred pF	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	
10,000	SR155E103ZAR																
47,000	SR.....E473ZAR																
100,000	SR215E104ZAR																
150,000	SR.....E154ZAR																
220,000	SR215E224ZAR																
330,000	SR215E334ZAR																
470,000	SR215E474ZAR																
680,000	SR.....E684ZAR																
1.0 µF	SR.....105ZAR																
1.5 µF	SR30E155ZAR																
2.2 µF	SR30E225ZAR																
3.3 µF	SR30E335ZAR																
4.7 µF	SR30E475ZAR																

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
- = SR20 only

Capacitance ranges available for SR12 and SR07 same as SR15
 SR62 and SR59 same as SR21
 SR64 and SR65 same as SR30
 SR75 same as SR40
 SR13 same as SR21

NOTE: For others voltages, tolerances, electrical specifications and NPO typical characteristics, see the AVX Multilayer Ceramic Leaded Capacitors Catalog.

AVX 500 VOLT SKYCAPS**

STYLE*	MAXIMUM CAPACITANCE VALUE	
	C0G (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 27 and 28 for style sizes.

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