

Radial Leads/SkyCap®/SL Series



GENERAL INFORMATION

AVX SL Series

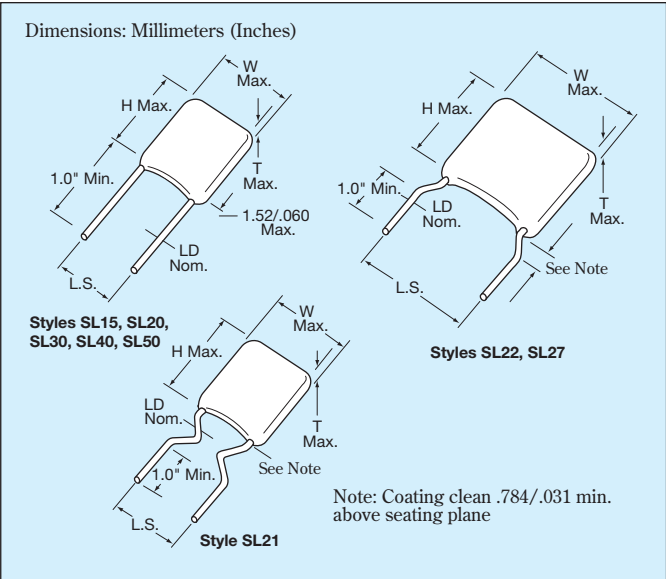
Conformally Coated Radial Leaded MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: Solderable Sn/Pb



HOW TO ORDER

SL21	5	E	104	M	A	B	TR1
AVX Style	Voltage	Temperature Coefficient	Capacitance	Capacitance Tolerance	Failure Rate	Leads	Packaging
SL15 SL20 SL21 SL22 SL27 SL30 SL40 SL50	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 = $\pm 0.25\text{pF}$ D = $\pm 5\text{pF}$ F = $\pm 1\%$ (>50pF only) G = $\pm 2\%$ (>25pF only) J = $\pm 5\%$ K = $\pm 10\%$ X7R: J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z5U: M = $\pm 20\%$ Z = $+80\%$ -20%	A = Not Applicable	B = Leads Sn/Pb (Tin lead product)	Blank = Bulk Packaging T = Trimmed Leads .230"± .030" Bulk packaging TR1 = Tape and Reel Packaging AP1 = Ammopack Packaging See packaging specification page 33-34.

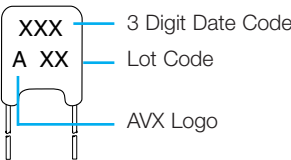
Not RoHS Compliant

MARKING

FRONT



BACK



PACKAGING REQUIREMENTS

	Quantity per Bag
SL15, 20, 21, 22, 27, 30	1000 Pieces
SL40, 50	500 Pieces

Note: SL15, SL20, SL21, SL30, and SL40 available on tape and reel per EIA specifications RS-468. See Pages 33 and 34.

SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)

*Other capacitance values available upon special request.

 = Industry preferred values

 = SL20 only

NOTE: Capacitance Ranges available for SL12 same as SL15
SL62 same as SL21
SL64 same as SL30
SL89 same as SL21

Radial Leads/SkyCap®/SL Series



X7R Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

AVX Style	SL15	SL20	SL21	SL22	SL27	SL30	SL40	SL50									
AVX “Insertable”	SL07	SL29	SL59	N/A	N/A	SL65	SL75	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			
470	SL.....C471KAB																
1000	SL155C102KAB																
1500	SL.....C152KAB																
2200	SL.....C222KAB																
3300	SL.....C332KAB																
4700	SL.....C472KAB																
6800	SL.....C682KAB																
10,000	SL215C103KAB																
15,000	SL.....C153KAB																
22,000	SL.....C223KAB																
33,000	SL.....C333KAB																
47,000	SL.....C473KAB																
68,000	SL.....C683KAB																
100,000	SL215C104KAB																
150,000	SL.....C154KAB																
220,000	SL215C224KAB																
330,000	SL.....C334KAB																
390,000	SL.....C394KAB																
470,000	SL305C474KAB																
1.0 uF	SL305C105KAB																
2.2 uF	SL405C225KAB																
2.7 uF	SL505C275KAB																
4.7 uF	SL505C475KAB																
10.0 uF	SL655C106KAB																

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

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Z5U Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

AVX Style	SL15	SL20	SL21	SL22	SL27	SL30	SL40	SL50
AVX "Insertable"	SL07	SL29	SL59	N/A	N/A	SL65	SL75	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 SL155E103ZAB								
47,000 SL.....E473ZAB								
100,000 SL215E104ZAB								
150,000 SL.....E154ZAB								
220,000 SL215E224ZAB								
330,000 SL215E334ZAB								
470,000 SL215E474ZAB								
680,000 SL.....E684ZAB								
1.0 µF SL.....105ZAB								
1.5 µF SL30E155ZAB								
2.2 µF SL30E225ZAB								
3.3 µF SL30E335ZAB								
4.7 µF SL30E475ZAB								

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
	= SL20 only

AVX 500 VOLT SKYCAPS**

STYLE*	MAXIMUM CAPACITANCE VALUE	
	C0G (NP0)	X7R
SL29	900 pF	.015 µF
SL20	1800 pF	.033 µF
SL28	900 pF	.015 µF
SL59	900 pF	.015 µF
SL13	1800 pF	.033 µF
SL21	1800 pF	.033 µF
SL30	7200 pF	.12 µF
SL61	7200 pF	.12 µF
SL65	7200 pF	.12 µF
SL40	.015 µF	.27 µF
SL75	.015 µF	.27 µF
SL22	1800 pF	.033 µF
SL27	1800 pF	.033 µF
SL76	.015 µF	.27 µF
SL50	.036 µF	.59 µF

*Consult pages 27 and 28 for style sizes.

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



Mouser Electronics

Authorized Distributor

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AVX:

[SL151A330JAB](#) [SL155E103MAB](#) [SL151C102KAB](#) [SL301A103JAB](#) [SL151A150JAB](#) [SL151C103KAB](#)
[SL155C103KAB](#) [SL151A220JAB](#) [SL151A100JAB](#) [SL151A101JAB](#) [SL155C102KAB](#) [SL201A102JAB](#)
[SL301E105MAB](#) [SL305C105KAB](#) [SL305C474KAB](#) [SL305E105MABTR1](#) [SL505C225KAB](#) [SL211A471JAB](#)
[SL205E104MAB](#) [SL211C103KAB](#) [SL205C104MAB](#) [SL201E104MAB](#) [SL201C104KAB](#) [SL211C104KAB](#)
[SL205E224MAB](#) [SL215C103KAB](#) [SL211C104KABTR1](#) [SL215C224KAB](#) [SL275E104MAB](#) [SL275C104KAB](#)
[SL215E474MAB](#) [SL201A222JAB](#) [SL215C104KAB](#) [SL205C104KABTR1](#) [SL205C104KAB](#) [SL215C104KABTR1](#)
[SL211A102KAB](#) [SL151A101KAB](#) [SL215A270JAB](#) [SL151E103MABTR2](#) [SL211A220JAB](#) [SL205C104JAB](#)
[SL505E475MAB](#) [SL501A104JAB](#) [SL221A102JAB](#) [SL215C683KAB](#) [SL152A330KAB](#) [SL295E104MABTR1](#)
[SL151A680KAB](#) [SL151C222KAB](#) [SL211C473KABTR13289](#) [SL201C104KABTR2](#) [SL621A102FABTR1](#)
[SL205E474MAB](#) [SL301A103FAB](#) [SL201A122JAB](#) [SL221E104MAB](#) [SL305E105MAB](#) [SL201A102JABTR1](#)
[SL211C222JAB](#) [SL305A103JAB](#) [SL301A183JAB](#) [SL307C104MAB](#) [SL215C153KAB](#) [SL155A100JAB](#)
[SL211E104MAB](#) [SL301C334KAB](#) [SL151A680JAB](#) [SL225E474MAB](#) [SL215E334ZAB](#) [SL211C103KABTR2-85](#)
[SL215C333JAB](#) [SL151A100JABTR1](#) [SL155E104MAB](#) [SL155C103MAB](#) [SL221C103MAB](#) [SL155A102KAB](#)
[SL211C473KAB](#) [SL215E473MABTR1](#) [SL501A153KAB](#) [SL215C224KABTR1](#) [SL155E103ZAB](#) [SL215E334MABTR1](#)
[SL211A222JAB](#) [SL215C222KAB](#) [SL215C104MAB](#) [SL502C474KAB](#) [SL215E104MAB](#) [SL215C473KAB](#)
[SL305E225MAB](#) [SL215C154KAB](#) [SL307C103KAB](#) [SL152A4R7DAB](#) [SL151C271KAB](#) [SL302A103KAB](#)
[SL151A471JAB](#) [SL305C474KABAP2](#) [SL505C475KAB](#) [SL215C104KABTR2](#) [SL211C333KAB](#)