

Radial Leads/SkyCap®/SL Series



GENERAL INFORMATION

AVX SL Series

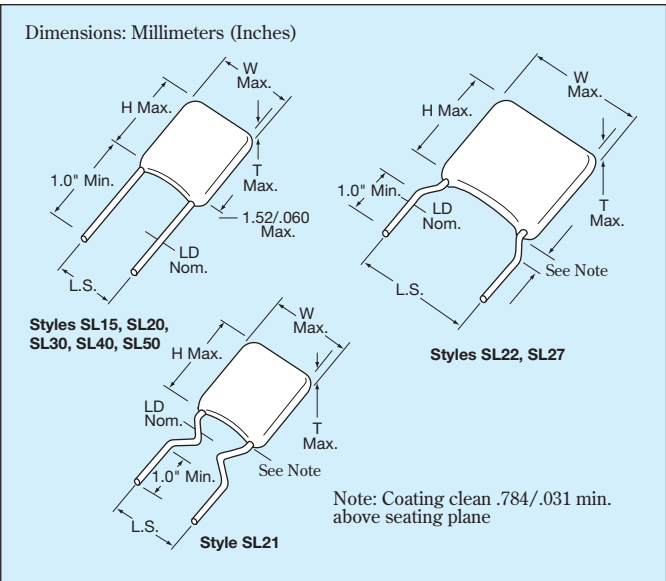
Conformally Coated Radial Leaded MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: Solderable Sn/Pb



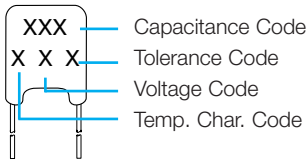
HOW TO ORDER

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 = $\pm 25\text{pF}$ 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" $\pm$.030" Bulk packaging TR1 = Tape and Reel Packaging AP1 = Ammopack Packaging See packaging specification page 33-34.

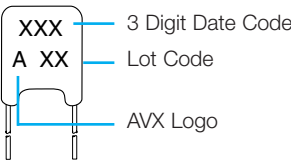
Not RoHS Compliant

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.

Radial Leads/SkyCap®/SL Series



C0G (NP0) Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

		SL15			SL20			SL21			SL22			SL27			SL30			SL40			SL50		
AVX Style		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			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		
1.0-9.9	SL151A1R0DAB																								
10	SL151A100KAB																								
15	SL-----A150KAB																								
22	SL-----A220KAB																								
33	SL-----A330KAB																								
39	SL-----A390KAB																								
47	SL-----A470KAB																								
68	SL-----A680KAB																								
100	SL151A101KAB																								
150	SL-----A151KAB																								
220	SL-----A221KAB																								
330	SL-----A331KAB																								
390	SL-----A391KAB																								
470	SL-----A471KAB																								
680	SL-----A681KAB																								
1000	SL211A102KAB																								
1500	SL-----A152KAB																								
2200	SL-----A222KAB																								
3900	SL-----A392KAB																								
4700	SL-----A472KAB																								
6800	SL-----A682KAB																								
8200	SL-----A822KAB																								
10,000	SL305A103KAB																								
15,000	SL-----A153KAB																								
22,000	SL-----A223KAB																								
33,000	SL-----A333KAB																								
39,000	SL-----A393KAB																								
47,000	SL-----A473KAB																								
68,000	SL-----A683KAB																								
100,000	SL-----A104KAB																								

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

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.* Industry Preferred pF Values in Blue		WVDC 200 100 50			WVDC 200 100 50			WVDC 200 100 50			WVDC 100 50		WVDC 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



Radial Leads/SkyCap®/SL Series



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 DWW 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](#)