

RADIAL LEADS

SkyCap®/SL Series



GENERAL INFORMATION

SL Series

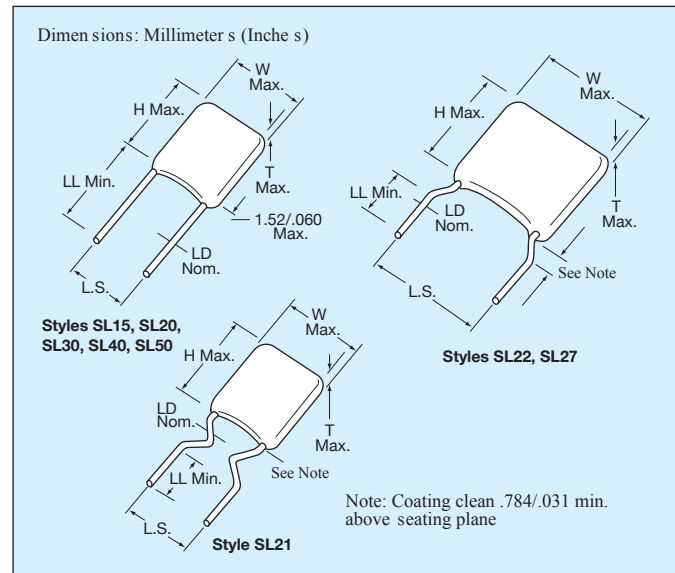
Conformally Coated Radial Leaded MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: Solderable Sn/Pb



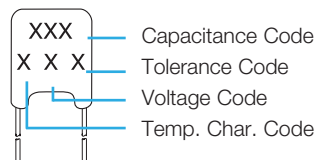
HOW TO ORDER

SL21	5	E	104	M	A	B	TR1
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%	B = Leads Sn/Pb (Tin lead product)	Blank: Bulk Packaging 1.0" minimum of lead length Trimmed leads .230" $\pm$.030" Bulk packaging TR1: Tape and Reel Packaging AP1: Ammopack packaging See packaging specification pages 33-34

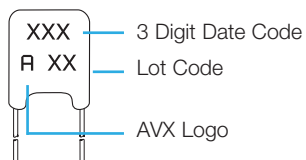
Not RoHS Compliant

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

C0G (NP0) Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

Style	SL15	SL20			SL21			SL22			SL27			SL30		SL40		SL50				
"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)		8.13 (.320)				
Height (H)	3.81 (.150)	5.08 (.200)			5.08 (.200)			5.08 (.200)			6.35 (.250)			7.62 (.300)		10.16 (.400)		8.89 (.350)				
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)		10.92 (.430)				
Lead Diameter (L.D.)	.508 (.020)	.508 (.020)			.508 (.020)			.508 (.020)			.508 (.020)			.508 (.020)		.508 (.020)		25.4 (1.00)				
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	100	50	100	50	100	50
1.0-9.9	SL151A1R0DAB																					
10	SL151A100KAB																					
15	SL151A150KAB																					
22	SL151A220KAB																					
33	SL151A330KAB																					
39	SL151A390KAB																					
47	SL151A470KAB																					
68	SL151A680KAB																					
100	SL151A101KAB																					
150	SL151A151KAB																					
220	SL151A221KAB																					
330	SL151A331KAB																					
390	SL151A391KAB																					
470	SL151A471KAB																					
680	SL151A681KAB																					
1000	SL211A102KAB																					
1500	SL151A152KAB																					
2200	SL151A222KAB																					
3900	SL151A392KAB																					
4700	SL151A472KAB																					
6800	SL151A682KAB																					
8200	SL151A822KAB																					
10,000	SL305A103KAB																					
15,000	SL151A153KAB																					
22,000	SL151A223KAB																					
33,000	SL151A333KAB																					
39,000	SL151A393KAB																					
47,000	SL151A473KAB																					
68,000	SL151A683KAB																					
100,000	SL151A104KAB																					

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

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

RADIAL LEADS

X7R Dielectric



SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic																		Dimensions: Millimeters (Inches)									
	Style	SL15			SL20			SL21			SL22			SL27			SL30			SL40			SL50				
	"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)			8.13 (.320)				
	Height (H)	3.81 (.150)			5.08 (.200)			5.08 (.200)			5.08 (.200)			6.35 (.250)			7.62 (.300)			10.16 (.400)			8.89 (.350)				
	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)			10.92 (.430)				
	Lead Diameter (L.D.)	.508 (.020)			.508 (.020)			.508 (.020)			.508 (.020)			.508 (.020)			.508 (.020)			.508 (.020)			25.4 (1.00)				
Cap. in.* pF	Industry Preferred Values in Blue	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	200	100	50	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

Z5U Dielectric

SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

Style	SL15	SL20	SL21	SL22	SL27	SL30	SL40	SL50									
"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)	8.13 (.320)									
Height (H)	3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.35 (.250)	7.62 (.300)	10.16 (.400)	8.89 (.350)									
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)	10.92 (.430)									
Lead Diameter (L.D.)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	.508 (.020)	25.4 (1.00)									
Cap. in.* pF	Industry Preferred Values in Blue	WVDC		WVDC		WVDC		WVDC		WVDC		WVDC		WVDC		WVDC	
		100	50	100	50	100	50	100	50	100	50	100	50	100	50	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

500 VOLT SKYCAPS**

STYLE*	MAXIMUM CAPACITANCE VALUE	
	C0G (NP0)	X7R
SL29	900 pF	.015 µF
SL20	1800 pF	.033 µF
SL28 SL59	900 pF	.015 µF
SL13 SL21	1800 pF	.033 µF
SL30 SL61 SL65	7200 pF	.12 µF
SL40 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.