

# RADIAL LEADS

## SkyCap®/SL Series

### GENERAL INFORMATION

#### SL Series

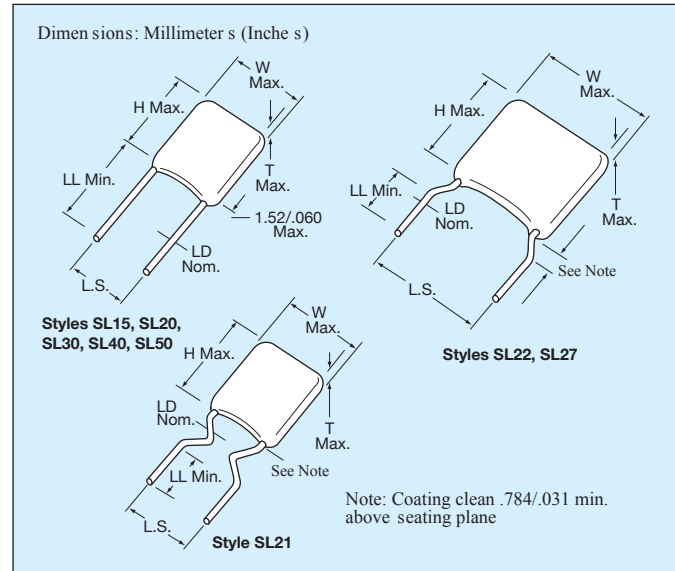
Conformally Coated Radial Leaded MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: Solderable Sn/Pb



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

### HOW TO ORDER

**SL21**

**5**

**E**

**104**

**M**

**A**

**B**

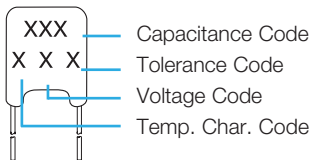
**TR1**

Style	Voltage	Temperature Coefficient	Capacitance	Capacitance Tolerance	Failure Rate	Leads	Packaging
SL15	5 = 50V	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.)	COG (NP0): C = ±.25pF D = ±.5pF F = ±1% (>50pF only) G = ±2% (>25pF only) J = ±5% K = ±10%	X7R: J = ±5% K = ±10% M = ±20%	B = Leads Sn/Pb (Tin lead product)	Blank: Bulk Packaging 1.0" minimum of lead length T: Trimmed leads .230" ± .030" Bulk packaging TR1: Tape and Reel Packaging AP1: Ammopack packaging
SL20	1 = 100V						
SL21	2 = 200V						
SL22	9 = 300V						
SL27	8 = 400V						
SL30	7 = 500V						
SL40							
SL50							

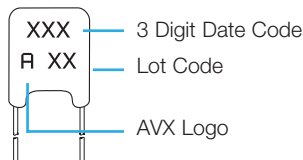
Not RoHS Compliant

### 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												
<b>Width (W)</b>	3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.604 (.260)	7.62 (.300)	10.16 (.400)	8.13 (.320)												
<b>Height (H)</b>	3.81 (.150)	5.08 (.200)	5.08 (.200)	5.08 (.200)	6.35 (.250)	7.62 (.300)	10.16 (.400)	8.89 (.350)												
<b>Thickness (T)</b>	2.54 (.100)	3.175 (.125)	3.175 (.125)	3.175 (.125)	4.06 (.160)	3.81 (.150)	3.81 (.150)	5.08 (.200)												
<b>Lead Spacing (L.S.)</b>	2.54 (.100)	2.54 (.100)	5.08 (.200)	6.35 (.250)	7.62 (.300)	5.08 (.200)	5.08 (.200)	10.92 (.430)												
<b>Lead Diameter (L.D.)</b>	.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			
		200	100	50	200	100	50	200	100	50	200	100	50	200	100	50	200	100	50	
1.0-9.9	SL151A1R0DAB																			
<b>10</b>	<b>SL151A100KAB</b>																			
15	SI...A150KAB																			
22	SI...A220KAB																			
33	SI...A330KAB																			
39	SI...A390KAB																			
47	SI...A470KAB																			
68	SI...A680KAB																			
<b>100</b>	<b>SL151A101KAB</b>																			
150	SI...A151KAB																			
220	SI...A221KAB																			
330	SI...A331KAB																			
390	SI...A391KAB																			
470	SI...A471KAB																			
680	SI...A681KAB																			
<b>1000</b>	<b>SL211A102KAB</b>																			
1500	SI...A152KAB																			
2200	SI...A222KAB																			
3900	SI...A392KAB																			
4700	SI...A472KAB																			
6800	SI...A682KAB																			
8200	SI...A822KAB																			
<b>10,000</b>	<b>SL305A103KAB</b>																			
15,000	SI...A153KAB																			
22,000	SI...A223KAB																			
33,000	SI...A333KAB																			
39,000	SI...A393KAB																			
47,000	SI...A473KAB																			
68,000	SI...A683KAB																			
100,000	SI...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

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)

EIA Characteristic	Style	SL15		SL20		SL21		SL22		SL27		SL30		SL40		SL50			
		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
470	SL...C471KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
1000	SL155C102KAB	Blue	Blue	Black				Blue	Blue	Blue	Blue	Blue	Blue						
1500	SL...C152KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
2200	SL...C222KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
3300	SL...C332KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
4700	SL...C472KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
6800	SL...C682KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
10,000	SL215C103KAB	Blue	Blue	Black				Blue	Blue	Blue	Blue	Blue	Blue						
15,000	SL...C153KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
22,000	SL...C223KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
33,000	SL...C333KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
47,000	SL...C473KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
68,000	SL...C683KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
100,000	SL215C104KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
150,000	SL...C154KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
220,000	SL215C224KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
330,000	SL...C334KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
390,000	SL...C394KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
470,000	SL305C474KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
1.0 uF	SL305C105KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
2.2 uF	SL405C225KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
2.7 uF	SL505C275KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
4.7 uF	SL505C475KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						
10.0 uF	SL655C106KAB	Blue	Blue	Blue				Blue	Blue	Blue	Blue	Blue	Blue						

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	
	COG (NP0)	X7R
SL29	900 pF	.015 µF
SL20	1800 pF	.033 µF
SL28	900 pF	.015 µF
SL59		
SL13	1800 pF	.033 µF
SL21		
SL30	7200 pF	.12 µF
SL61		
SL65		
SL40	.015 µF	.27 µF
SL75		
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.



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at [www.kyocera-avx.com/disclaimer/](http://www.kyocera-avx.com/disclaimer/) by reference and should be reviewed in full before placing any order.