

Radial Leads/SkyCap®/SL Series



GENERAL INFORMATION

AVX SL Series

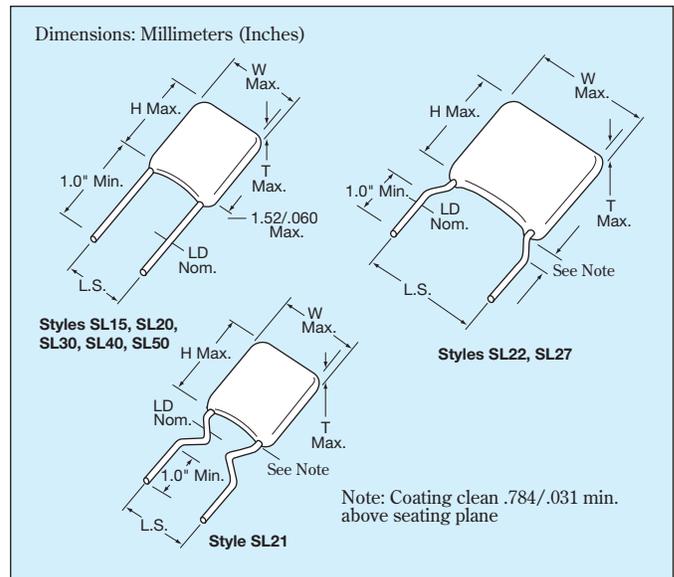
Conformally Coated Radial Ledged MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: Solderable Sn/Pb



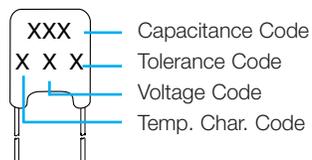
HOW TO ORDER

| | | | | | | | |
|--------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 = ±.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 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. |

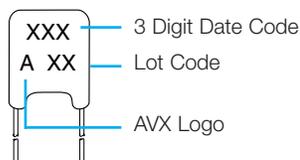
Not RoHS Compliant

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.

Radial Leads/SkyCap®/SL Series



C0G (NP0) 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 | 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 |
| 1.0-9.9 10 15 | SL151A1R0DAB SL151A100KAB SL.....A150KAB | | | | | | | | | | | | | | | | | | |
| 22 33 39 | SL.....A220KAB SL.....A330KAB SL.....A390KAB | | | | | | | | | | | | | | | | | | |
| 47 68 100 | SL.....A470KAB SL.....A680KAB SL151A101KAB | | | | | | | | | | | | | | | | | | |
| 150 220 330 | SL.....A151KAB SL.....A221KAB SL.....A331KAB | | | | | | | | | | | | | | | | | | |
| 390 470 680 | SL.....A391KAB SL.....A471KAB SL.....A681KAB | | | | | | | | | | | | | | | | | | |
| 1000 1500 2200 | SL211A102KAB SL.....A152KAB SL.....A222KAB | | | | | | | | | | | | | | | | | | |
| 3900 4700 6800 | SL.....A392KAB SL.....A472KAB SL.....A682KAB | | | | | | | | | | | | | | | | | | |
| 8200 10,000 15,000 | SL.....A822KAB SL305A103KAB SL.....A153KAB | | | | | | | | | | | | | | | | | | |
| 22,000 33,000 39,000 | SL.....A223KAB SL.....A333KAB SL.....A393KAB | | | | | | | | | | | | | | | | | | |
| 47,000 68,000 100,000 | SL.....A473KAB SL.....A683KAB 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 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 | |
| 470 pF SL.....C471KAB | | | | | | | | | | | | | | | | | | | |
| 1000 pF SL155C102KAB | | | | | | | | | | | | | | | | | | | |
| 1500 pF SL.....C152KAB | | | | | | | | | | | | | | | | | | | |
| 2200 pF SL.....C222KAB | | | | | | | | | | | | | | | | | | | |
| 3300 pF SL.....C332KAB | | | | | | | | | | | | | | | | | | | |
| 4700 pF SL.....C472KAB | | | | | | | | | | | | | | | | | | | |
| 6800 pF SL.....C682KAB | | | | | | | | | | | | | | | | | | | |
| 10,000 pF SL215C103KAB | | | | | | | | | | | | | | | | | | | |
| 15,000 pF SL.....C153KAB | | | | | | | | | | | | | | | | | | | |
| 22,000 pF SL.....C223KAB | | | | | | | | | | | | | | | | | | | |
| 33,000 pF SL.....C333KAB | | | | | | | | | | | | | | | | | | | |
| 47,000 pF SL.....C473KAB | | | | | | | | | | | | | | | | | | | |
| 68,000 pF SL.....C683KAB | | | | | | | | | | | | | | | | | | | |
| 100,000 pF SL215C104KAB | | | | | | | | | | | | | | | | | | | |
| 150,000 pF SL.....C154KAB | | | | | | | | | | | | | | | | | | | |
| 220,000 pF SL215C224KAB | | | | | | | | | | | | | | | | | | | |
| 330,000 pF SL.....C334KAB | | | | | | | | | | | | | | | | | | | |
| 390,000 pF SL.....C394KAB | | | | | | | | | | | | | | | | | | | |
| 470,000 pF 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 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 47,000 100,000 | SL155E103ZAB SL.....E473ZAB SL215E104ZAB | | | | | | | |
| 150,000 220,000 330,000 | SL.....E154ZAB SL215E224ZAB SL215E334ZAB | | | | | | | |
| 470,000 680,000 | SL215E474ZAB SL.....E684ZAB | | | | | | | |
| 1.0 µF 1.5 µF 2.2 µF | SL.....105ZAB SL30E155ZAB SL30E225ZAB | | | | | | | |
| 3.3 µF 4.7 µF | SL30E335ZAB 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 | |
|----------------------|---------------------------|---------|
| | COG (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.



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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