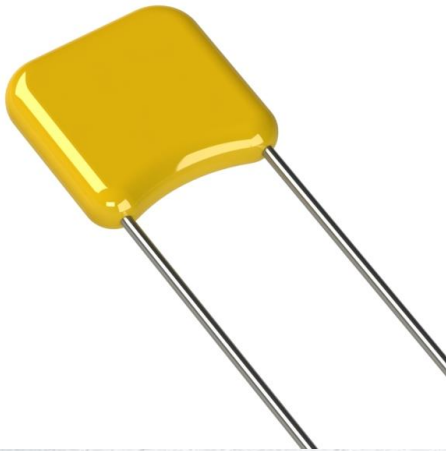


# SR151A180JAA Datasheet

www.digi-electronics.com



https://www.DiGi-Electronics.com

DiGi Electronics Part Number	SR151A180JAA-DG
Manufacturer	<a href="#">KYOCERA AVX</a>
Manufacturer Product Number	SR151A180JAA
Description	CAP CER 18PF 100V COG/NPO RADIAL
Detailed Description	18 pF ±5% 100V Ceramic Capacitor COG, NPO Radia L

This model SR151A180JAA is available at DiGi Electronics.

DiGi Electronics offers a global database of semiconductor and electronic component datasheets.

We welcome your inquiries regarding pricing, lead time, or other product-related questions.

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RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

SR151A180JAA

Series:

SkyCap® SR

Capacitance:

18 pF

Voltage - Rated:

100V

Operating Temperature:

-55°C ~ 125°C

Ratings:

-

Mounting Type:

Through Hole

Size / Dimension:

0.150" L x 0.100" W (3.81mm x 2.54mm)

Thickness (Max):

-

Lead Style:

Straight

Manufacturer:

KYOCERA AVX

Product Status:

Active

Tolerance:

±5%

Temperature Coefficient:

COG, NPO

Features:

-

Applications:

General Purpose

Package / Case:

Radial

Height - Seated (Max):

0.150" (3.81mm)

Lead Spacing:

0.100" (2.54mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.24.0060

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

# RADIAL LEADS

## SkyCap®/SR Series

### GENERAL INFORMATION

#### SR Series

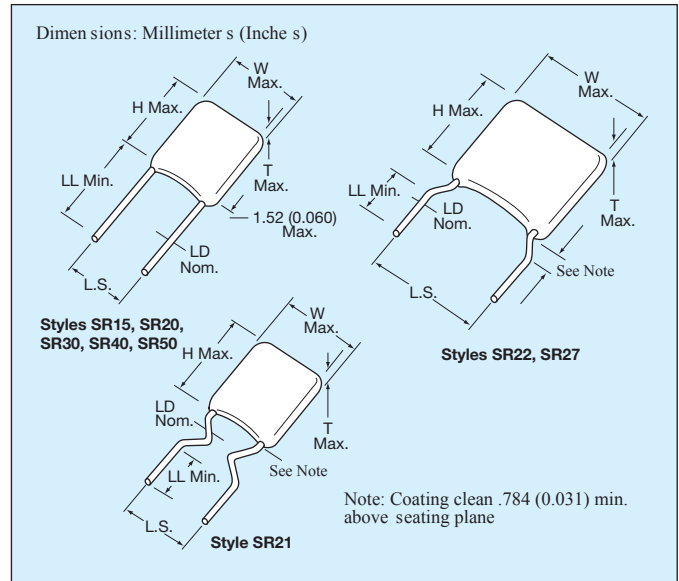
Conformally Coated Radial Leaded MLC

Temperature Coefficients: COG (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: RoHS Compliant, 100% Tin



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

### HOW TO ORDER

**SR21**

**5**

**E**

**104**

**M**

**A**

**R**

**TR1**

#### Style

SR15  
SR20  
SR21  
SR22  
SR27  
SR30  
SR40  
SR50

#### Voltage

5 = 50V  
1 = 100V  
2 = 200V  
9 = 300V  
8 = 400V  
7 = 500V

#### Temperature Coefficient

A = COG (NP0)  
C = X7R  
E = Z5U

#### Capacitance

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.)

#### Capacitance Tolerance

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%

Z5U:  
M = ±20%  
Z = +80% -20%

#### Failure Rate

A = Not Applicable

#### Leads

R = RoHS

#### Packaging

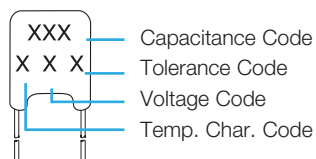
Blank: Bulk Packaging 1.0" minimum of lead length  
T: Trimmed leads .230" ± .030"  
Bulk packaging  
TR1: Tape and Reel Packaging  
AP1: Ammopack packaging

See packaging specification pages 33-34

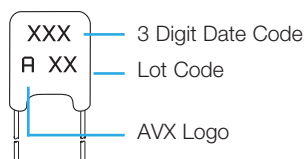


### MARKING

#### FRONT



#### BACK



### PACKAGING REQUIREMENTS

	Quantity per Bag
SR15, 20, 21, 22, 27, 30	1000 Pieces
SR40, 50	500 Pieces

Note: SR15, SR20, SR21, SR30, and SR40 available on tape and reel per EIA specifications RS-468. See Pages 33 and 34.



# RADIAL LEADS

## COG (NP0) Dielectric

### SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

Style	SR15	SR20	SR21	SR22	SR27	SR30	SR40	SR50													
"Insertable"	SR07	SR29	SR59	N/A	N/A	SR65	SR75	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	
1.0-9.9	SR151A1R0DAR	█			█			█			█			█							
<b>10</b>	<b>SR151A100KAR</b>	█			█			█			█			█							
15	SR....A150KAR	█			█			█			█			█							
22	SR....A220KAR	█			█			█			█			█							
33	SR....A330KAR	█			█			█			█			█							
39	SR....A390KAR	█			█			█			█			█							
47	SR....A470KAR	█			█			█			█			█							
68	SR....A680KAR	█	█		█			█			█			█							
<b>100</b>	<b>SR151A101KAR</b>	█	█		█			█			█			█							
150	SR....A151KAR	█	█		█			█			█			█							
220	SR....A221KAR	█	█	█	█			█		█			█	█							
330	SR....A331KAR	█	█	█	█			█		█			█	█							
390	SR....A391KAR	█	█	█	█			█		█			█	█							
470	SR....A471KAR	█	█	█	█			█		█			█	█							
680	SR....A681KAR	█	█	█	█			█		█			█	█							
<b>1000</b>	<b>SR211A102KAR</b>			█	█			█		█			█	█							
1500	SR....A152KAR			█	█			█		█			█	█							
2200	SR....A222KAR			█	█	█		█		█			█	█							
3900	SR....A392KAR			█	█	█		█		█			█	█							
4700	SR....A472KAR			█	█	█		█		█			█	█							
6800	SR....A682KAR			█	█	█		█		█			█	█							
8200	SR....A822KAR						█								█						
<b>10,000</b>	<b>SR....A103KAR</b>						█								█						
15,000	SR....A153KAR						█								█						
22,000	SR....A223KAR														█						
33,000	SR....A333KAR														█						
39,000	SR....A393KAR														█						
47,000	SR....A473KAR														█						
68,000	SR....A683KAR														█						
100,000	SR....A104KAR														█						

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

Capacitance ranges available for SR12 and SR07 same as SR15  
 SR62 and SR59 same as SR21  
 SR64 and SR65 same as SR30  
 SR75 same as SR40  
 SR13 same as SR21

**NOTE:** For others voltages, tolerances, electrical specifications and NP0 typical characteristics, see the KYOCERA AVX Multilayer Ceramic Leaded Capacitors Catalog.



# RADIAL LEADS

## X7R Dielectric

### SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

Style	SR15	SR20			SR21			SR22			SR27			SR30			SR40			SR50		
	SR07	SR29	SR59	N/A	N/A	SR65	SR75	N/A	SR15	SR20	SR21	SR22	SR27	SR30	SR40	SR50						
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	200	100	50	200	100	50
470	SR...C471KAR	Blue	Blue	Blue																		
1000	SR155C102KAR	Blue	Blue	Black																		
1500	SR...C152KAR	Blue	Blue	Blue																		
2200	SR...C222KAR	Blue	Blue	Blue																		
3300	SR...C332KAR	Blue	Blue	Blue																		
4700	SR...C472KAR	Blue	Blue	Blue																		
6800	SR...C682KAR	Blue	Blue	Blue																		
10,000	SR215C103KAR	Blue	Blue	Black																		
15,000	SR...C153KAR	Blue	Blue	Blue																		
22,000	SR...C223KAR	Blue	Blue	Blue																		
33,000	SR...C333KAR	Blue	Blue	Blue																		
47,000	SR...C473KAR	Blue	Blue	Blue																		
68,000	SR...C683KAR	Blue	Blue	Blue																		
100,000	SR215C104KAR	Blue	Blue	Black																		
150,000	SR...C154KAR	Blue	Blue	Blue																		
220,000	SR215C224KAR	Blue	Blue	Black																		
330,000	SR...C334KAR	Blue	Blue	Blue																		
390,000	SR...C394KAR	Blue	Blue	Blue																		
470,000	SR305C474KAR	Blue	Blue	Blue																		
1.0 uF	SR305C105KAR	Blue	Blue	Blue																		
2.2 uF	SR405C225KAR	Blue	Blue	Blue																		
2.7 uF	SR505C275KAR	Blue	Blue	Blue																		
4.7 uF	SR505C475KAR	Blue	Blue	Blue																		
10.0 uF	SR655C106KAR	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	SR15	SR20	SR21	SR22	SR27	SR30	SR40	SR50
"Insertable"	SR07	SR29	SR59	N/A	N/A	SR65	SR75	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
		100 50	100 50	100 50	100 50	100 50	100 50	100 50
10,000	SR155E103ZAR							
47,000	SR...E473ZAR							
100,000	SR215E104ZAR							
150,000	SR...E154ZAR							
220,000	SR215E224ZAR							
330,000	SR215E334ZAR							
470,000	SR215E474ZAR							
680,000	SR...E684ZAR							
1.0 µF	SR...105ZAR							
1.5 µF	SR30E155ZAR							
2.2 µF	SR30E225ZAR							
3.3 µF	SR30E335ZAR							
4.7 µF	SR30E475ZAR							

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  
 = SR20 only

Capacitance ranges available for SR12 and SR07 same as SR15  
 SR62 and SR59 same as SR21  
 SR64 and SR65 same as SR30  
 SR75 same as SR40  
 SR13 same as SR21

**NOTE:** For others voltages, tolerances, electrical specifications and NPO typical characteristics, see the KYOCERA AVX Multilayer Ceramic Leaded Capacitors Catalog.

### 500 VOLT SKYCAPS\*\*

STYLE*	MAXIMUM CAPACITANCE VALUE	
	COG (NPO)	X7R
SR29	900 pF	.015 µF
SR20	1800 pF	.033 µF
SR28 SR59	900 pF	.015 µF
SR13 SR21	1800 pF	.033 µF
SR30 SR61 SR65	7200 pF	.12 µF
SR40 SR75	.015 µF	.27 µF
SR22	1800 pF	.033 µF
SR27	1800 pF	.033 µF
SR76	.015 µF	.27 µF

\*Consult pages 27 and 28 for style sizes.

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

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