

GENERAL INFORMATION

AVX SR Series

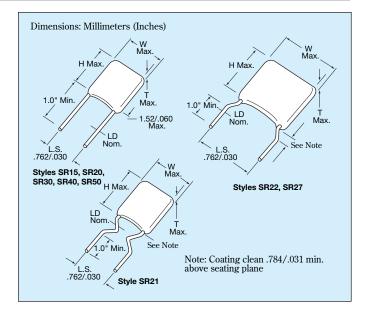
Conformally Coated Radial Leaded MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

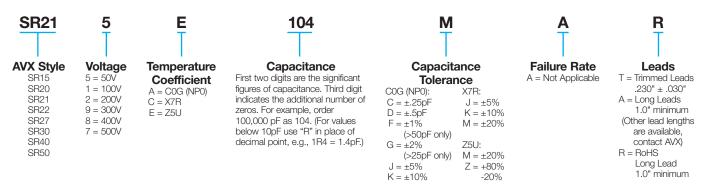
200, 100, 50 Volts (300V, 400V & 500V also available)

Case Material: Epoxy

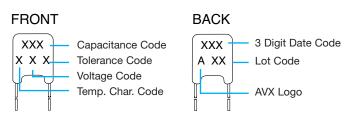
Lead Material: Solderable



HOW TO ORDER



MARKING

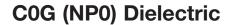


PACKAGING REQUIREMENTS

	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 29 and 30.







SIZE AND CAPACITANCE SPECIFICATIONS

	AVX Style		SR15	5		SR20)		SR21			SR22	2		SR27	' -	SF	R30	SF	R40	SF	R50
	AVX "Insertable"	rtable" SR07		SR29		SR59		N/A		N/A			SR65		SR75		N/A					
	Width		3.81		5.08		5.08		5.08		6.604			7.62		10.16		12.70				
	(W)		(.150)		(.200)		(.200)		(.200)		(.260)			(.300)		(.400)		(.500)				
	Height		3.81		5.08			5.08			5.08			6.35		ı	62	10.16 (.400)		12.70		
	(H) Thickness		(.150)		(.200)			(.200)			(.200) 3.175			(.250) 4.06		`	00)	<u>`</u>		(.500) 5.08		
	Thickness (T)			l .	3.175 (.125)			3.175		l .	3.175 (.125)			4.06 (.160)			.81 50)		81 50)		00)	
	Lead Spacing		2.54			2.54			5.08			6.35			7.62		`	08	,	08	`	.16
	(L.S.)		(.100)			(.100)			(.200)			(.250))		(.300)			00)		00)		00)
	Lead Diameter		.508			.508			.508			.508			.508		.5	08	.5	08	.6	35
	(L.D.)		(.020)			(.020)			(.020)		(.020)			(.020)		(.0	20)	(.0	20)	(.0	25)	
	Industry Preferred		WVD	-		WVD			WVD			NVDO	-		NVDC			/DC		DC .		/DC
pF	Values in Blue	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 10 15	SR151A1R0DAA SR151A100KAA SRA150KAA																					
22	SRA220KAA																					
33	SRA330KAA																					
39 47	SRA390KAA SRA470KAA																					
68 100	SRA680KAA SR151A101KAA																					
150	SRA151KAA																					
220 330	SRA221KAA SRA331KAA																					
390 470	SRA391KAA SRA471KAA																					
680	SRA681KAA																					
1000 1500	SR211A102KAA SRA152KAA																					
2200 3900	SRA222KAA SRA392KAA																					
4700	SRA472KAA																					
6800	SRA682KAA SRA822KAA						7777															
8200 10.000	SR305A103KAA																					
15,000	SRA153KAA																					
22,000	SRA223KAA																					
33,000 39,000	SRA333KAA SRA393KAA																					
47,000	SRA473KAA																					
68,000	SRA683KAA SRA104KAA																					

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

= Industry preferred values

NOTE: Capacitance Ranges available for SR12 same as SR15 SR62 same as SR21 SR64 same as SR30 SR89 same as SR21



^{*}Other capacitance values available upon special request.





SIZE AND CAPACITANCE SPECIFICATIONS

EIA Charac	AVX Style		SR15	5		SR20)		SR21		SF	322	SF	327		SR30			SR40			neters (SR50	-	
	AVX "Insertable"			SR29		SR59		-	/A	-	/A		SR65			SR75			N/A					
	Width		3.81		5.08			5.08			5.08		6.604 7.62			10.16			12.70					
	(W)		(.150)				200)		(.200)		(.200)		(.260) (.300)			(.400)			(.500)					
	Height	3.81				5.08			5.08		,	08	6.35			7.62		10.16			12.70			
	(H)		(.150)				(.200)			(.200))	(.2	00)	(.2	50)		(.300)		(.400)			(.500)		
	Thickness		2.54		1	3.175			3.175			175	1	06	1	3.81			3.81			5.08		
	(T)		(.100)			(.125)			(.125)		,	25)	,	60)		(.150)			(.150)			(.200)		
	Lead Spacing		2.54			2.54 (.100)			5.08			35 50)		62 00)	1	5.08 (.200)			5.08 (.200)		l	10.16 (.400)		
	(L.S.) Lead Diameter		.508)		.508			.508)	,	,	,	,		.508			.508			.635		
		(.020)			(.020)			(.020))	.508 (.020)		.508 .508 (.020) (.020)				(.020)		(.025)						
Cap. in.*	Industry Preferred		WVDC		WVDC			WVDC		WVDC		WVDC		WVDC		;	WVDC		WVDC		;			
pF	Values in Blue	200	100	50	200	100	50	200	100	50	100	50	100	50	200	100	50	200	100	50	200	100	50	
470	SRC471KAA																							
1000 1500	SR155C102KAA SRC152KAA																							
2200	SRC222KAA																							
3300 4700	SRC332KAA SRC472KAA																							
6800	SRC682KAA																							
10,000 15,000	SR215C103KAA SRC153KAA																							
22.000	SRC223KAA																							
33,000	SRC333KAA				////	1																		
47,000 68.000	SRC473KAA SRC683KAA																							
100,000	SR215C104KAA																							
150,000	SRC154KAA																							
220,000 330,000	SR215C224KAA SRC334KAA					////			////		////		////											
390,000	SRC394KAA												<i>\///</i>											
470,000 1.0 μF	SR305C474KAA SR305C105KAA						////				V ///													
2.2 µF	SR405C225KAA					,,,,			,,,,															
2.7 µF	SR505C275KAA																							
4.7 μF	SR505C475KAA																							

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

= Industry preferred values

= SR20 only

= Extended range = Extended range, SR20 only

= Extended range with 0.150" thickness maximum

NOTE: Capacitance Ranges available for SR12 same as SR15

SR62 same as SR21 SR64 same as SR30

SR89 same as SR21



^{*}Other capacitance values available upon special request.

Z5U Dielectric

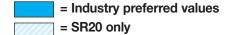


SIZE AND CAPACITANCE SPECIFICATIONS

EIA Charact	eristic												1	Dimensio	ons: Mill	imeters	(Inches)
	AVX Style	SF	R15	SF	R20	SF	R21	SF	322	SF	R27	SF	30	SF	R40	SF	R50
AVX "Insertable"		SF	SR07		SR29		SR59		N/A		/A	SR65		SR75		N.	/A
Width (W)			.81 50)	5.08 (.200)		5.08 (.200)		5.08 (.200)		6.604 (.260)		7.62 (.300)		10.16 (.400)		12.70 (.500)	
Height (H)			.81 50)	5.08 (.200)		5.08 (.200)		5.08 (.200)		6.35 (.250)		7.62 (.300)		10.16 (.400)		12.70 (.500)	
Thickness (T)			.54 00)		175 25)	3.175 (.125)		3.175 (.125)		4.06 (.160)			.81 50)		81 50)	1	.08 !00)
Lead Spacing (L.S.)			.54 00)	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)		08 (20)	.508 (.020)		.635 (.025)	
Cap. in.*	Industry Preferred Values in Blue	W\ 100	/DC 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	SR155E103ZAA SRE473ZAA SR215E104ZAA SRE154ZAA																
220,000 330,000 470,000	SR215E224ZAA SR215E334ZAA SR215E474ZAA																
680,000	SRE684ZAA																
1.0 μF 1.5 μF 2.2 μF	SR105ZAA SR30E155ZAA SR30E225ZAA																
3.3 μF 4.7 μF	SR30E335ZAA SR30E475ZAA																

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

^{*}Other capacitance values available upon special request.



AVX 500 VOLT SKYCAPS**

	MAXIMUM CAF	PACITANCE VALUE
STYLE*	COG (NP0)	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
SR50	.036 μF	.59 μF

^{*}Consult pages 22 and 23 for style sizes.

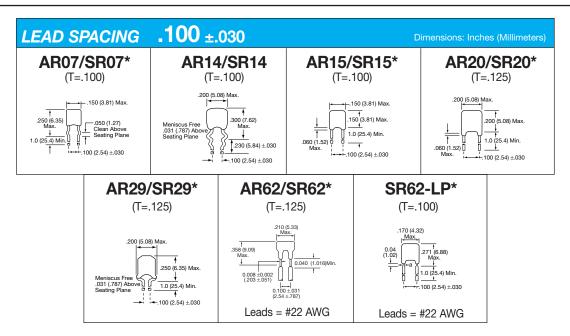


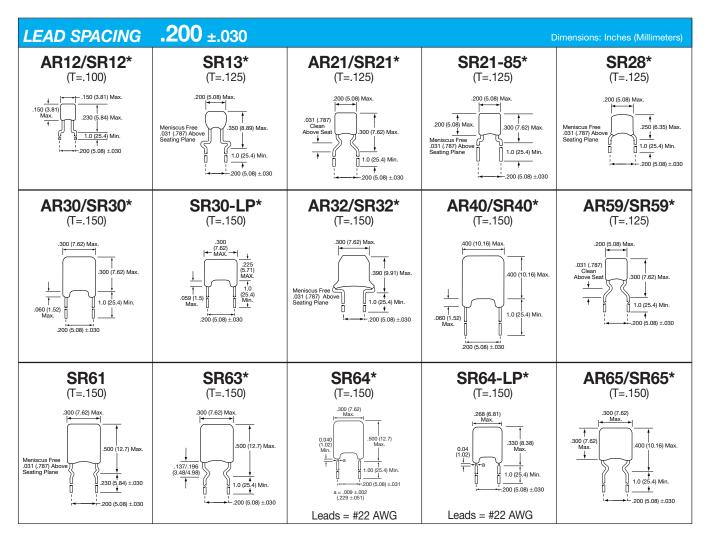
^{**}Voltage rating based on DWV of 150% of rated voltage.

SkyCap®/AR Series





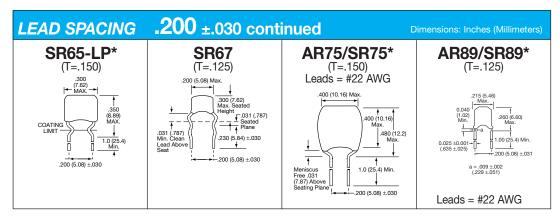


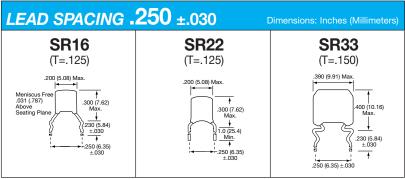


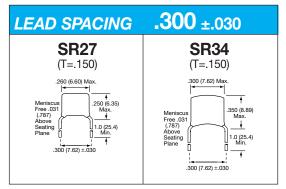
SkyCap®/AR Series

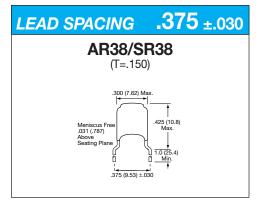


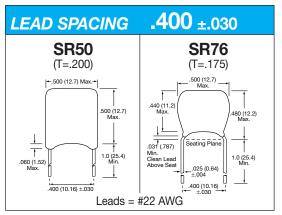












NOTES: 1. All leads are #24 AWG unless otherwise noted.

- 2. Available in tape and reel packaging(*).
- 3. Other styles are also available, contact factory.
- 4. (T = XXX) under type designation is maximum thickness in inches.



Radial Leads/Packaging

Tape and Reel



GENERAL INFORMATION

- 1. Standard reel diameter is 355 millimeters (14 inches) maximum.
- 2. Reeling standard (#1 or #2) should be specified when ordering.

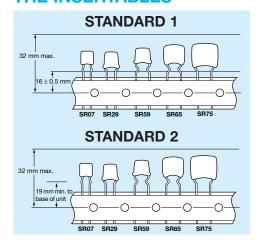
HOW TO ORDER

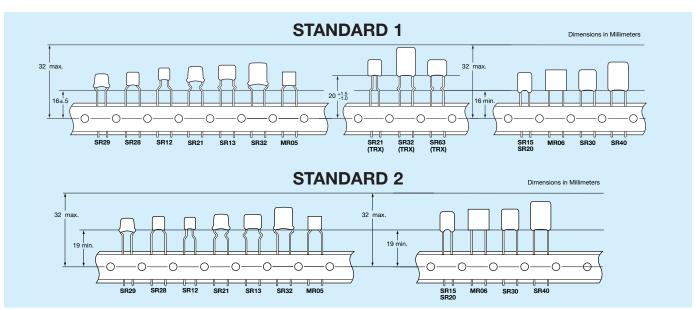
To specify tape and reel packaging, add TR1, TR2 or TRX to the end of the AVX 12 digit part number.

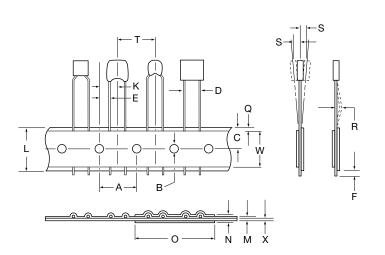
Examples:

SR215C104KAATR1 SR305E105MAATR2 SR215C103JAATRX

THE INSERTABLES







DESCRIPTION

- A. Feed Hole Pitch B. Feed Hole Diameter
- C. Feed Hole Location
- D. Component Lead Spacing
- E. Component Lead Location
- F. Component Lead Protrusion (edge of carrier to cut end of lead)
- K. Component Body Location
- L. Carrier Tape Width
- M. Carrier Tape Assembly Thickness
- N. Carrier Tape Spliced Thickness
- O. Carrier Tape Spliced Length
- Q. Adhesive Tape Border
- R. Component Bent Leads (either direction)
- S. Component Misalignment
- T. Component Pitch
- W. Adhesive Tape Width
- X. Carrier Tape Thickness
- Y. Cumulative Pitch over 20 Pitches

DIMENSIONS (MM)

12.70 ± .20 $3.99 \pm .20$ 9.02 ± .51

 $5.00^{+.79}_{-20}$ or $2.54^{+.79}_{-20}$

3.81 ±.51 or 5.00 ±.51 for 2.54 lead spacing 2.00 maximum

6.35 ±.41

18.01 ^{+1.02} _{-.51}

.71 ± .20 1.42 maximum

50.80 - 88.90

3.00 maximum .79 maximum

.99 maximum

12.70 ±.99

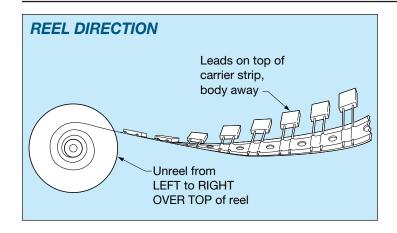
5.00 minimum .51 ±.10

254 ±2.00

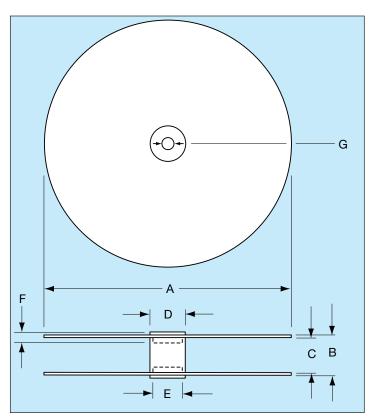


Radial Leads/Packaging





QUANTITY PER REEL SR/AR										
PART	PCS									
SR15, 07, 12	3500									
SR20, 21, 23, 28 13, 29, 59, 62, 89	3000									
SR30, 32, 40, 63, 64 65, 75	2000									
MR05, 06	2500									



DESCRIPTION	DIMENSIONS (MM)
A - Reel Diameter	304.80 - 355
B - Reel Outside Width	50.80 maximum
C - Reel Inside Width	38.10 - 46.02
D - Core Diameter (O.D.)	102.01 maximum
E - Hub Recess Diameter	86.36 maximum
F - Hub Recess Depth	9.50 minimum
G – Arbor Hole Diameter	25.40 - 30.48

	CONVERSION TABLE														
MM	IN	MM	IN	MM	IN	ММ	IN	ММ	IN						
.10	.004	1.52	.060	5.00	.197	9.91	.390	32.00	1.260						
.20	.007	2.00	.079	5.08	.200	10.03	.395	38.10	1.500						
.38	.015	2.54	.100	6.22	.245	10.16	.400	46.02	1.812						
.41	.016	3.00	.118	6.35	.250	11.68	.460	50.80	2.000						
.51	.020	3.18	.125	6.60	.260	12.50	.492	86.36	3.400						
.71	.028	3.48	.137	6.99	.275	12.70	.500	88.90	3.500						
.79	.031	3.81	.150	7.62	.300	16.00	.630	102.01	4.016						
.99	.039	3.99	.157	8.89	.350	18.01	.709	254.00	10.000						
1.02	.040	4.45	.175	9.02	.355	25.40	1.000	304.80	12.000						
1.42	.056	4.98	.196	9.50	.374	30.48	1.200	355.00	14.000						