

GENERAL INFORMATION

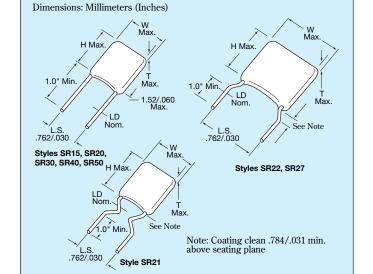
AVX SR Series

Conformally Coated Radial Leaded MLC

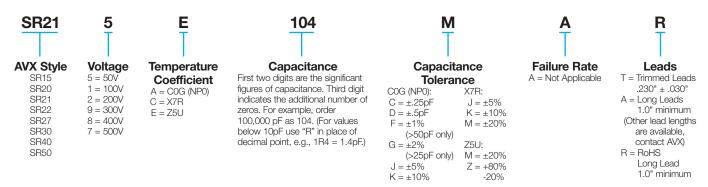
Temperature Coefficients: C0G (NP0), X7R, Z5U

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

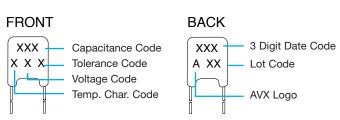
Case Material: Epoxy
Lead Material: Solderable



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

EIA Charact																					limeters	
	AVX Style SR15			SR20	-		SR21			SR22	!		SR27	_		R30		R40	-	R50		
	AVX "Insertable" SR07			SR29			SR59			N/A		N/A			SR65		SR75		N/A			
	Width 3.81		5.08		5.08		5.08		6.604			7.62 (.300)		10.16 (.400)		12.70 (.500)						
	(W)		(.150))		(.200)			(.200))		(.200)	1		(.260)	1	<u>`</u>		`		· `	
	Height (H)		3.81	١		5.08			5.08	١		5.08	,		6.35		l	.62 300)		.16 00)	12.	
	Thickness		2.54			3.175	<u> </u>		3.175		_	3.175			4.06		,	.81	,	81	· `	08
	(T)		(.100)			(.125)		l .	(.125)			(.125)			(.160))		50)		50)	(.20	
	Lead Spacing		2.54			2.54			5.08			6.35			7.62		5.	.08	5.	08	10.	.16
	(L.S.)		(.100))		(.100))		(.200))		(.250))		(.300))	(.2	(00)	(.2	00)	(.40	00)
	Lead Diameter		.508			.508			.508			.508			.508			808		08		35
	(L.D.)		(.020)			(.020)			(.020)			(.020)			(.020)			20)		20)	(.02	
Cap. in.*	Industry Preferred Values in Blue	ı	WVD(100			WVD(100			WVD(100			NVD(100			WVD(100		W\ 100	/DC 50	100	/DC 50	100	
1.0-9.9	SR151A1R0DAA	200	100	50	200	100	50	200	100	50	200	100	50	200	100	50	100	50	100	50	100	
1.0-9.9 10 15	SR151A100KAA SRA150KAA																					
22	SRA220KAA																					
33 39	SRA330KAA SRA390KAA																					
47	SRA470KAA																					
68 100	SRA680KAA SR151A101KAA																					
150	SRA151KAA																					
220 330	SRA221KAA SRA331KAA																					
390	SRA391KAA																					
470	SRA471KAA																					
680 1000	SRA681KAA SR211A102KAA																					
1500	SRA152KAA																					
2200	SRA222KAA																				\vdash	<u> </u>
3900 4700	SRA392KAA SRA472KAA					////																
6800	SRA682KAA																					
8200	SRA822KAA																					
10,000 15,000	SR305A103KAA SRA153KAA						////															
22,000	SRA223KAA																					
33,000 39,000	SRA333KAA SRA393KAA																					
47,000	SRA473KAA																					
68,000 100,000	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.



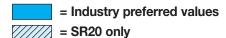


SIZE AND CAPACITANCE SPECIFICATIONS

EIA Charac	cteristic																		Dime	nsions	: Millin	neters ((Inche
	AVX Style		SR15	5		SR20)		SR21		SF	22	SF	R27		SR30			SR40			SR50	
	AVX "Insertable" SR07			SR29			SR59		N	N/A		I/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)		<u> </u>	(.200)		(.260) (.300)			(.400)			(.500)				
	Height		3.81		5.08					5.08		5.08 (.200)		6.35 (.250)		7.62		10.16			12.70 (.500)		
	(H) Thickness		(.150)			(.200)			3.175		<u> </u>	00) 175	`	06		(.300) 3.81			3.81			5.08	
	Thickness (T)		(.100)		1	(.125)			(.125)		1	175 25)		06 60)		૩.૪ i (.150)			(.150)			(.200)	
	Lead Spacing		2.54			2.54			5.08		<u> </u>	35	`	62		5.08			5.08			10.16	
	(L.S.)		(.100)			(.100)			(.200)		1 .	50)		00)		(.200)			(.200)			(.400)	
	Lead Diameter		.508			.508			.508		.5	08	.5	08		.508			.508		.635		
	(L.D.)		(.020)			(.020)			(.020)		<u> </u>	(.020)		20)		(.020)			(.020)		(.025)		
	Industry Preferred		WVDO			WVDO			WVD			DC		/DC		NVDC			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 1000	SRC471KAA SR155C102KAA																						
1500	SRC152KAA																						
2200	SRC222KAA																						
3300 4700	SRC332KAA SRC472KAA																						
6800	SRC682KAA																						
10,000 15,000	SR215C103KAA SRC153KAA																						
22.000	SRC223KAA																						
33,000	SRC333KAA																						
47,000 68.000	SRC473KAA SRC683KAA				-											-							-
100,000	SR215C104KAA																						
150,000	SRC154KAA																						
220,000 330,000	SR215C224KAA SRC334KAA					////			////		V///		////										
390,000	SRC394KAA								V///		<i>\///</i>												
470,000	SR305C474KAA						1///			1													
1.0 μF 2.2 μF	SR305C105KAA SR405C225KAA					<i> ///</i>	////		V///		Y///.		<i>////</i>		1								
2.7 µF	SR505C275KAA																						
4.7 µF	SR505C475KAA																						

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

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



= 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





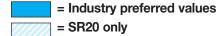


SIZE AND CAPACITANCE SPECIFICATIONS

EIA Charact	eristic												[Dimensio	ons: Mill	imeters	(Inches)
	AVX Style	SF	R15	SF	R20	SF	R21	SF	322	SF	R27	SF	R30	SF	R40	SR	R50
AVX "Insertable"		SF	R07	7 SR29		9 SR59		N/A		N	/A	SF	R65	SF	R75	N/A	
Width (W)			.81 50)	5.08 (.200)		5.08 (.200)		5.08 (.200)		6.604 (.260)		7.62 (.300)		10.16 (.400)			.70 00)
	Height (H)		.81 50)		08 00)		08 (00)	5.08 (.200)		6.35 (.250)		7.62 (.300)		10.16 (.400)		12.70 (.500)	
	Thickness 2.54 (100)			3.175 (.125)			175 25)	3.175 (.125)			06 60)		81 50)	3. (.1	81 50)		08 00)
	Lead Spacing 2.5 (L.S.) (.10			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	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 47,000 100,000 150,000 220,000	SR155E103ZAA SRE473ZAA SR215E104ZAA SRE154ZAA SR215E224ZAA																
330,000 470,000 680,000	SR215E334ZAA SR215E474ZAA 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**

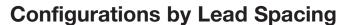
	MAXIMUM CAF	PACITANCE VALUE
STYLE*	COG (NP0)	X7R
SR29	900 pF	.015 μF
SR20	1800 pF	.033 μF
SR28 SR59	900 pF	.015 μF
SR13 SR21	1800 pF	.033 μF
SR30 SR61 SR65	7200 pF	.12 μF
SR40 SR75	.015 μF	.27 μF
SR22	1800 pF	.033 μF
SR27	1800 pF	.033 μF
SR76	.015 μF	.27 μF
SR50	.036 μF	.59 μF

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

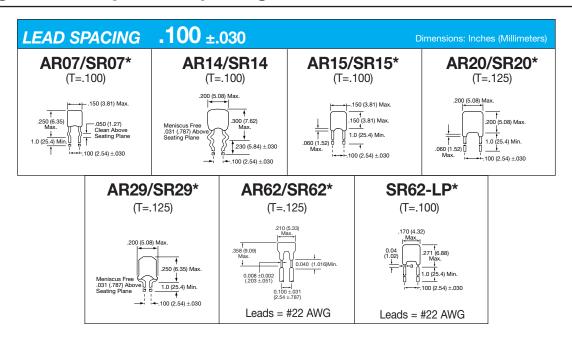


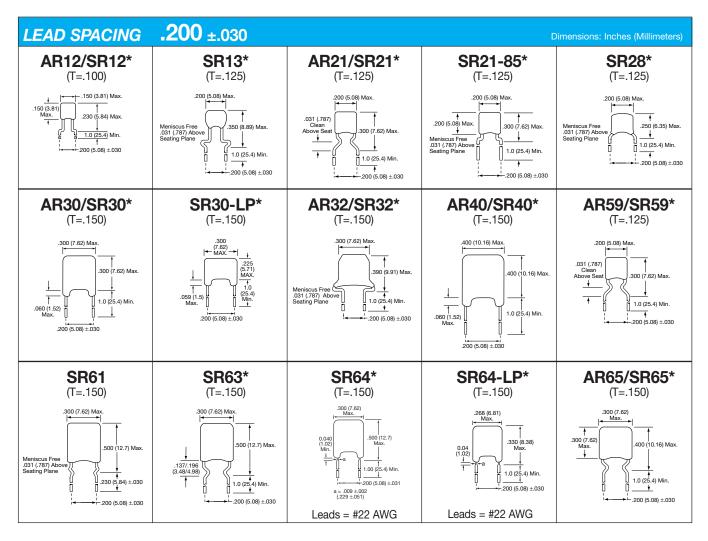
^{**}Voltage rating based on DWV of 150% of rated voltage.

SkyCap®/AR Series





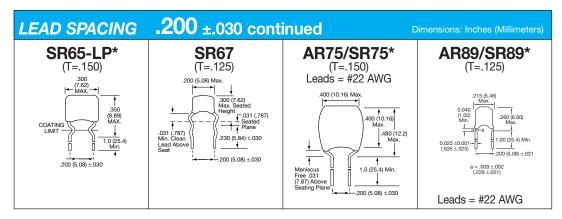


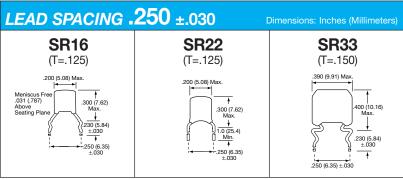


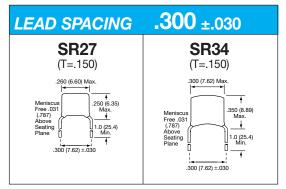
SkyCap®/AR Series

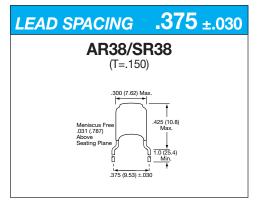


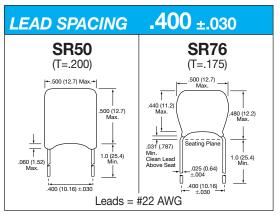












NOTES: 1. All leads are #24 AWG unless otherwise noted.

- 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.

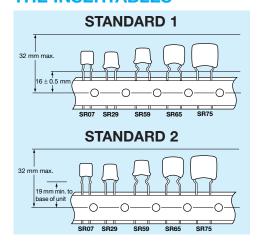
HOW TO ORDER

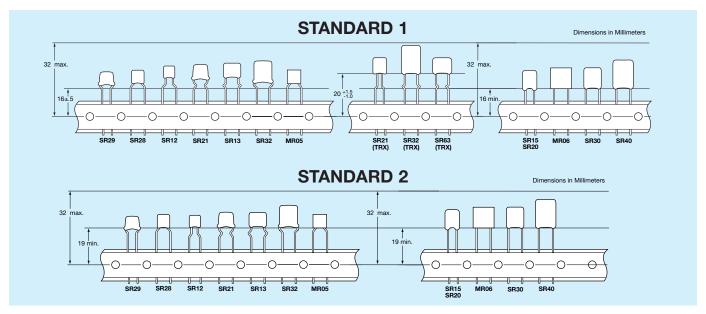
To specify tape and reel packaging, add TR1, TR2 or TRX to the end of the AVX 12 digit part number.

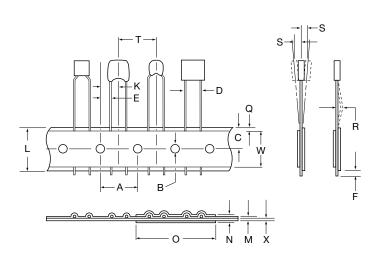
Examples:

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 ± .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

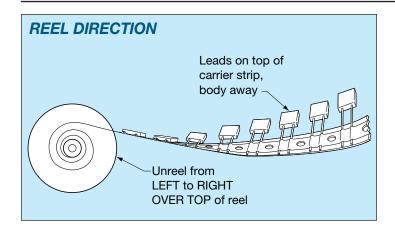
5.00 minimum .51 ±.10

254 ±2.00

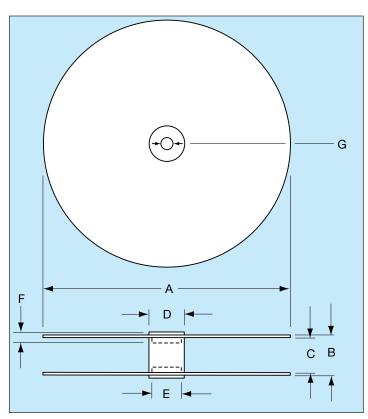


Radial Leads/Packaging





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	MM	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						

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

```
SR221C104KAA SR405C225JAA SR221A681KAA SR301A223KAT SR505A223JAA SR212A360GAA
SR211C563JAA SR215A682JAA SR155C392KAA SR211A152KAA SR215A472FAA SR305C474MAA
SR215A102KAA SR291C103KAT SR212A221JAA SR212A121JAA SR211A332JAT SR212A391KAA
SR301A223GAA SR211C332KAT SR211A561KAA SR405A683JAT SR202C103MAA SR201C683MAA
SR211A821JAA SR211A332FAA SR301A822JAA SR071A391JAA SR221C223KAA SR215A102FAA
SR275C682KAT SR295C332KAT SR211A682JAA SR655C105MAA SR201C393KAA SR151C392KAA
SR215C823KAA SR152A100KAA SR211C823KAA SR215C104MAT SR205C683MAA SR215C333MAA
SR152A390KAA SR201A102JAT SR215A222JAT SR595C153KAA SR221C473KAA SR211C152JAA
SR211A102FAT SR151C821KAA SR205C393KAA SR202A751JAA SR501C474KAA SR212A180JAA
SR152A101KAA SR151A101JAT SR211C223JAA SR201A272KAA SR215C223JAA SR225C103KAA
SR211A332JAA SR215C682KAA SR211A562JAA SR272A680JAA SR215C152KAA SR505C125JAA
SR155A102KAT SR215C472MAA SR205C823JAA SR215C683KAA SR155C392JAA SR595C473KAA
SR152A100JAT SR295C104MAA SR291C103KAA SR201A182JAA SR211C153KAT SR211C682KAA
SR211C393KAT SR301C224MAA SR151A101KAA SR211C473JAA SR215A102JAA SR595C103KAA
SR211A472JAT SR222A510JAA SR221C102KAA SR215A472KAA SR201A152FAA SR212A150JAA
SR151A271JAT SR151C152KAA SR125A102JAA SR152A470KAA SR505A823JAA SR211C472MAA
SR211C102KAT SR211A182KAA SR151A391JAT SR275E104MAT
```