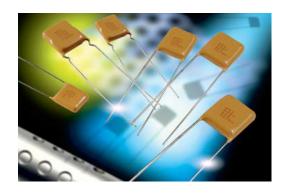
SMPS Capacitors

SE Style - Extended Commercial Radial Range



PRODUCT OFFERING - X7R

AVX SE styles offer capacitance extension to popular SK ranges. The CV product for SE-series, X7R capacitors (TCC: ±15% over -55 to +125°C) compares favorably to high CV ranges offered by other suppliers in much less stable Y5U dielectric (TCC: +22/-56% over -30 to +85°C). SE style capacitors are conformally coated and are designed for input and output filtering applications in switch mode power supplies.



ELECTRICAL SPECIFICATIONS

Temperature Coefficient

X7R: Temperature Coefficient ±15%, -55° to +125°C Capacitance Test (MIL-STD-202 Method 305)

X7R: 25°C, 1.0±0.2 Vrms (open circuit voltage) at 1KHz

Dissipation Factor 25°C

X7R: 2.5% Max @ 25°C, 1.0±0.2 Vrms (open circuit voltage) at 1KHz

Insulation Resistance 25°C (MIL-STD-202 Method 302) X7R: $100K M\Omega$ or $1000 M\Omega$ - μ F, whichever is less. Insulation Resistance 125°C (MIL-STD-202 Method 302)

X7R: $10K M\Omega$ or $100 M\Omega$ - μ F, whichever is less.

Dielectric Withstanding Voltage 25°C (Flash Test)

X7R: 250% rated voltage for 5 seconds with 50 mA max charging current.

Life Test (1000 hrs)

X7R: 200% rated voltage at +125°C

Moisture Resistance (MIL-STD-202 Method 106)

X7R: Ten cycles with no voltage applied.

Thermal Shock (MIL-STD-202 Method 107, Condition A) Immersion Cycling (MIL-STD-202 Method 104, Condition B)

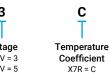
Resistance To Solder Heat (MIL-STD-202, Method 210, Condition B, for

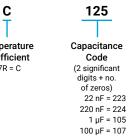
*Hi-Rel screening consists of 100% Group A, Subgroup 1 per MIL-PRF-39014.

20 seconds)

HOW TO ORDER















Note 1: No suffix signifies bulk packaging, which is AVX standard packaging. Parts available tape and reel per EIA-468. Use suffix "TR1" if tape & reel is

Note: Capacitors with X7R dielectrics are not intended for applications across AC supply mains or AC line filtering with polarity reversal. Contact plant for

recommendations.

TAPE & REEL QUANTITY			
Part	Pieces		
SE01	2000		
SE03/SE53	1000		
SE04/SE54	1000		
SE05/SE55	500		
SE06/SE56	500		

RoHS			
Part	art Available		
SE01	Yes		
SE03/SE53	Yes		
SE04/SE54	Yes		
SE05/SE55	Yes		
SE06/SE56	Yes		

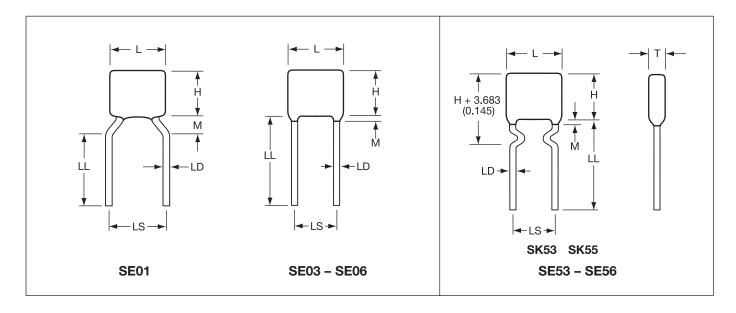
Not RoHS Compliant



For RoHS compliant products, please select correct termination style.

Performance of SMPS capacitors can be simulated by downloading SpiCalci software program http://www.avx.com/download/software/SpiCalci-AVX.zip Custom values, ratings and configurations are also available.





X7R Capacitance Range (µF)

Style	25 WVDC min./max.	50 WVDC min./max.	100 WVDC min./max.
SE01	0.47/1.5	0.39/1.0	0.33/0.68
SE03/SE53	2.7/6.8	2.2/4.7	1.8/3.3
SE04/SE54	5.6/12	3.9/10	3.3/6.8
SE05/SE55	8.2/18	6.8/12	4.7/10.0
SE06/SE56	18/39	12/27	6.8/15

DIMENSIONS millimeters (inches)

Style	L (max.)	H (max.)	T (max.)	LS (nom.)	LD (nom.)
SE01	5.08 (0.200)	5.08 (0.200)	5.08 (0.200)	5.08 (0.200)	0.508 (0.020)
SE03/SE53	7.62 (0.300)	7.62 (0.300)	5.08 (0.200)	5.08 (0.200)	0.508 (0.020)
SE04/SE54	10.2 (0.400)	10.2 (0.400)	5.08 (0.200)	5.08 (0.200)	0.508 (0.020)
SE05/SE55	12.7 (0.500)	12.7 (0.500)	5.08 (0.200)	10.2 (0.400)	0.635 (0.025)
SE06/SE56	22.1 (0.870)	15.2 (0.600)	5.08 (0.200)	20.1 (0.790)	0.813 (0.032)
L = Length H = Height		T = Thickness M = Meniscus 1.52 (0.060) max.		LS = Lead Spacing Nominal ±.787 LL = Lead Length 50.8 (2.000) max LD = Lead Diameter Nominal ±.050	x./25.4 (1.000) min.

Mouser Electronics

Authorized Distributor

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

KYOCERA AVX:

<u>SE051C825KAR</u> <u>SE015C105KAR</u> <u>SE033C685KAR</u> <u>SE035C475KAR</u> <u>SE041C685KAR</u> <u>SE043C106KAR</u> SE045C106KAR SE051C106KAR SE053C186KAR SE053C186KAA SE051C475MAR SE051C475KAA