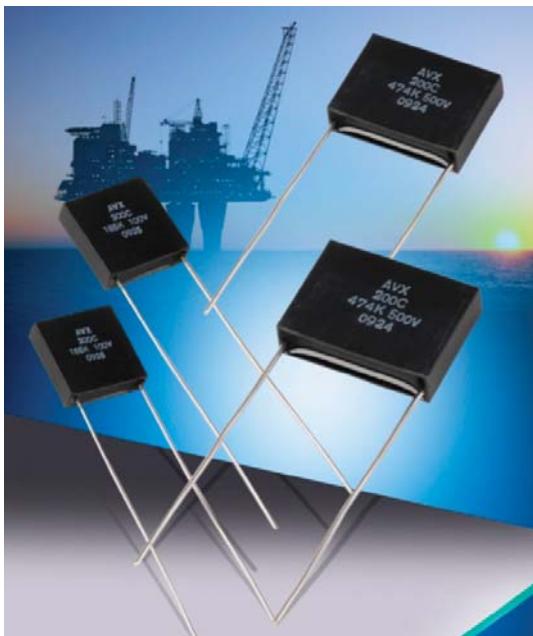


SMPS Molded Radial MLC Capacitors

SXP Style for High Temperature Applications up to 200°C



SXP-style, encapsulated radial leaded MLC capacitors are ideally suited for high temperature applications up to 200°C. This product is intended for downhole oil exploration, including logging while drilling, geophysical probes, as well as space, aerospace and hybrid automotive applications. This product supplements the SMX family of capacitors and offers mechanical protection to the ceramic element in extreme harsh environment. The high temperature solder utilized in the construction of SXP-style parts assures reliable operation in high temperature and rugged environments. The SXP-style capacitors are ideally suited for applications as DC filters in high power, high frequency motor drives, high pulsed-current circuitry, as well as standard electronic equipment designed for high temperature applications.

SXP-style, switch mode power supply capacitors are characterized with excellent performance. The main benefits of SXP product include:

- Low ESR, low ESL
 - Low DC leakage
 - Excellent high frequency performance

Not RoHS Compliant

HOW TO ORDER

SXP	3	1	C	104	M	A	A
AVX Style	Size See Dimensions chart	Voltage Code	Temperature Coefficient	Capacitance Code	Capacitance Tolerance	Test Level	Leads
		50V = 5 100V = 1 200V = 2 500V = 7 1000V = A 1500V = S 2000V = G 3000V = H	COG = A VHT/X7R = C	(2 significant digits + number of zeros) 100 pF = 101 22,000 pF = 223 1µF = 105	COG: J = ±5% K = ±10% M = ±20% VHT/X7R: K = ±10% M = ±20% Z = +80%, -20%	A = Standard	A = Standard Sn/Pb (min. 5% Pb)

ELECTRICAL SPECIFICATIONS

Temperature Coefficient

COG: A Temperature Coefficient	$0 \pm 30 \text{ ppm}/^\circ\text{C}$, -55° to +200°C
VHT/X7R: C Temperature Coefficient	$\pm 15\%$, -55°C to +125°C
	$\pm 15\%$ - 56% -55°C to +200°C

Capacitance Test (MIL-STD-202 Method 305)

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

Dissipation Factor 25°C

COG: 0.15% Max @ 25°C, 1.0±0.2 Vrms (open circuit voltage) at 1KHz
 VHT/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)

100K MΩ or 1000 MΩ-µF, whichever is less.

Insulation Resistance 125°C (MIL-STD-202 Method 302)
10K MΩ or 100 MΩ-μF, whichever is less.

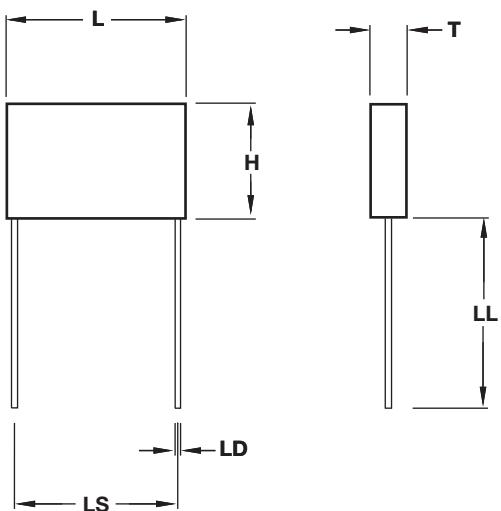
Insulation Resistance 200°C (MIL-STD-202 Method 302)
1k MΩ or 10 MΩ -μF, whichever is less.

Dielectric Withstanding Voltage 25°C (Flash Test)
250% rated voltage for 5 seconds with 50 mA max
charging current. (150% for 500 VDC and 120% for 1000 VDC
and higher voltage ratings)

SMPS Molded Radial MLC Capacitors

SXP Style for High Temperature Applications up to 200°C

STYLE



DIMENSIONS

millimeters (inches)

AVX Style	Length (L) ±0.25 (±0.010)	Height (H) ±0.25 (±0.010)	Thickness (T) ±0.25 (±0.010)	Lead Spacing ±0.76 (±0.030)	LD ±0.05 (±0.002)	LL
SXP1	8.9 (0.350)	8.9 (0.350)	5.08 (0.200)	5.08 (0.200)	0.51 (0.020)	25.4 (1.000)
SXP2	11.4 (0.450)	11.4 (0.450)	5.08 (0.200)	5.08 (0.200)	0.51 (0.020)	
SXP3	12.7 (0.500)	12.7 (0.500)	5.08 (0.200)	10.2 (0.400)	0.64 (0.025)	
SXP4	22.4 (0.880)	16.3 (0.640)	5.84 (0.230)	19.8 (0.780)	0.81 (0.032)	

CAPACITANCE RANGE

C0G

Style	50V	100V	200V	500V	1000V	1500V	2000V	3000V
SXP1 (MIN) (MAX)	1000pF .047µF	1000pF .027µF	1000pF 8200pF	100pF 4700pF	100pF 2200pF	100pF 1000pF	100pF 560pF	100pF 270pF
SXP2 (MIN) (MAX)	.01µF .10µF	1000pF .056µF	1000pF .018µF	100pF 8200pF	100pF 4700pF	100pF 1800pF	100pF 1200pF	100pF 560pF
SXP3 (MIN) (MAX)	.01µF .15µF	1000pF .068µF	1000pF .022µF	1000pF .012µF	1000pF 6800pF	100pF 2700pF	100pF 1500pF	100pF 1000pF
SXP4 (MIN) (MAX)	.01µF .39µF	.01µF .22µF	1000pF .068µF	1000pF .033µF	1000pF .018µF	1000pF 8200pF	100pF 4700pF	100pF 2700pF

VHT/X7R

Style	50V	100V	200V	500V	1000V	1500V	2000V	3000V
SXP1 (MIN) (MAX)	.1µF 1.5µF	.01µF 1.0µF	.01µF .33µF	.01µF .12µF	.01µF .056µF	.01µF .022µF	1000pF .012µF	1000pF 4700pF
SXP2 (MIN) (MAX)	.1µF 2.7µF	.1µF 1.8µF	.01µF .68µF	.01µF .27µF	.01µF .10µF	.01µF .056µF	.01µF .022µF	1000pF 8200pF
SXP3 (MIN) (MAX)	.01µF 3.9µF	.1µF 2.7µF	.01µF 1.0µF	.01µF .33µF	.01µF .15µF	.01µF .082µF	.01µF .033µF	.01µF .015µF
SXP4 (MIN) (MAX)	1µF 12µF	.1µF 8.2µF	.1µF 2.7µF	.01µF 1.0µF	.01µF .47µF	.01µF .22µF	.01µF .10µF	.01µF .039µF

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