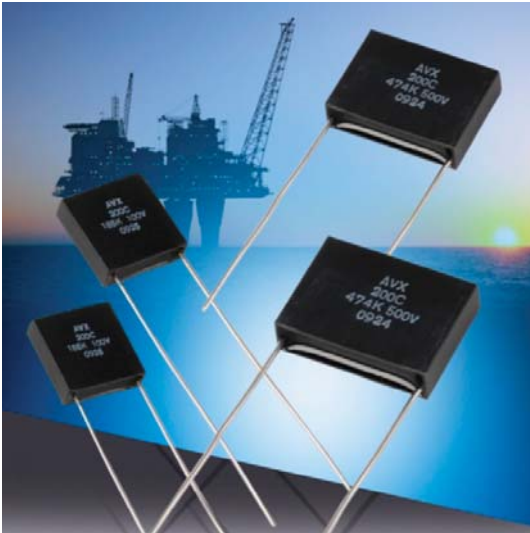


SMPS Molded Radial MLC Capacitors



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

HOW TO ORDER

SXP	3	1	C	104	M	A	A
AVX Style	Size See Dimensions chart	Voltage Code 50V = 5 100V = 1 200V = 2 500V = 7 1000V = A	Temperature Coefficient C0G = A X7R/X9U = C	Capacitance Code (2 significant digits + number of zeros) 100 pF = 101 22,000 pF = 223 1µF = 105	Capacitance Tolerance C0G: J = ±5% K = ±10% M = ±20% X7R: J = ±5% K = ±10% M = ±20% Z = +80%, -20%	Test Level A = Standard	Leads A = Standard Sn/Pb (min. 5% Pb)
					Tighter tolerances available upon request		

ELECTRICAL SPECIFICATIONS

Temperature Coefficient

C0G: A Temperature Coefficient 0 ±30 ppm/°C, -55° to +200°C
 X7R/X9U: C Temperature Coefficient ±15%, -55°C to +125°C
 +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

C0G: 0.15% Max @ 25°C, 1.0±0.2 Vrms (open circuit voltage) at 1KHz
 X7R/X9U: 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)

100 MΩ or 1 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 1000 VDC)

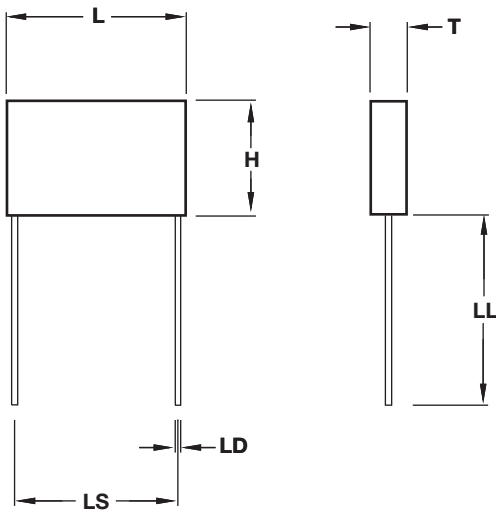


SMPS Molded Radial MLC Capacitors



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)
SXP1	8.9 (0.350)	8.9 (0.350)	5.08 (0.200)	5.08 (0.200)	0.51 (0.020)
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 (0.402)	0.64 (0.025)
SXP4	22.4 (0.880)	16.3 (0.641)	5.84 (0.230)	19.8 (0.780)	0.81 (0.032)

CAPACITANCE RANGE

C0G

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

X7R

Style	50V	100V	200V	500V	1000V
SXP1 (MIN)	.1μF	.01μF	.01μF	.01μF	.01μF
(MAX)	1.2μF	.68μF	.27μF	.12μF	.033μF
SXP2 (MIN)	.1μF	.1μF	.01μF	.01μF	.01μF
(MAX)	2.2μF	1.2μF	.56μF	.22μF	.068μF
SXP3 (MIN)	.01μF	.1μF	.01μF	.01μF	.01μF
(MAX)	3.3μF	1.8μF	.82μF	.33μF	.10μF
SXP4 (MIN)	1μF	.1μF	.1μF	.01μF	.01μF
(MAX)	10μF	5.6μF	2.2μF	1.0μF	.27μF

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