

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 50V = 5 100V = 1 200V = 2 500V = 7 1000V = A 1500V = S 2000V = G 3000V = H	Temperature Coefficient C0G = A VHT = 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% Tighter tolerances available upon request	Test Level A = Standard	Leads A = Standard Sn/Pb (min. 5% Pb)

ELECTRICAL SPECIFICATIONS

Temperature Coefficient

C0G: A Temperature Coefficient 0 ±30 ppm/°C, -55° to +200°C
VHT: 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)
1k MΩ or 10 MΩ -µF, whichever is less.

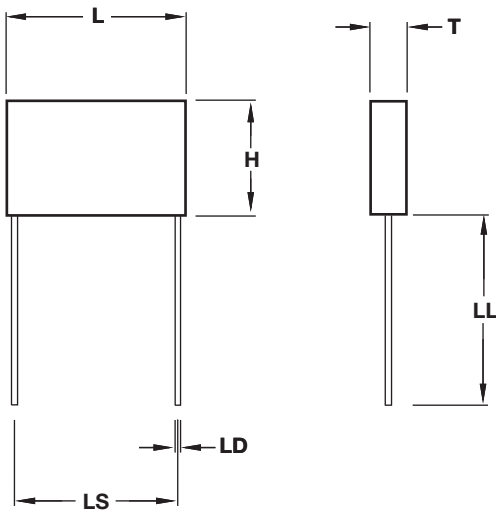
Dielectric Withstanding Voltage 25°C (Flash Test)
250% rated voltage for 5 seconds with 50 mA max
charging current. (150% for 500 VDC and 120% for 1000 VDC
and higher voltage ratings)

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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 (0.400)	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)	1000pF	1000pF	1000pF	100pF	100pF	100pF	100pF	100pF
SXP1 (MAX)	.047μF	.027μF	8200pF	4700pF	2200pF	1000pF	560pF	270pF
SXP2 (MIN)	.01μF	1000pF	1000pF	100pF	100pF	100pF	100pF	100pF
SXP2 (MAX)	.10μF	.056μF	.018μF	8200pF	4700pF	1800pF	1200pF	560pF
SXP3 (MIN)	.01μF	1000pF	1000pF	1000pF	1000pF	100pF	100pF	100pF
SXP3 (MAX)	.15μF	.068μF	.022μF	.012μF	6800pF	2700pF	1500pF	1000pF
SXP4 (MIN)	.01μF	.01μF	1000pF	1000pF	1000pF	1000pF	100pF	100pF
SXP4 (MAX)	.39μF	.22μF	.068μF	.033μF	.018μF	8200pF	4700pF	2700pF

VHT

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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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