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AVX Corporation SXP11C684KAA

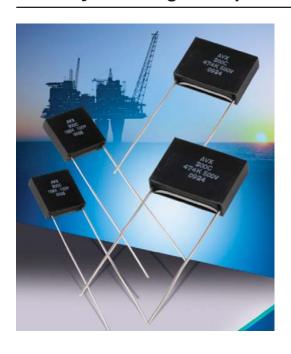
For any questions, you can email us directly: sales@integrated-circuit.com



## Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

# **SMPS Molded Radial MLC Capacitors**

## SXP Style for High Temperature Applications up to 200°C



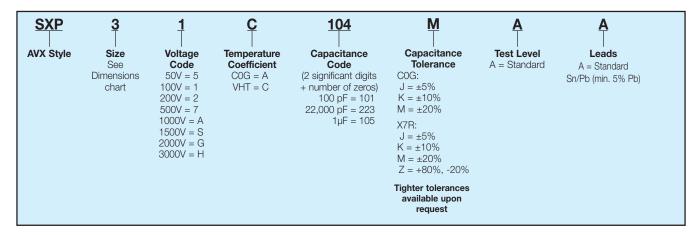
SXP-style, encapsulated radial leaded MLC capacitors are ideally suited for high temperature applications up to 200°C. This product is intended for downhole oil exploration, including logging while drilling, geophysical probes, as well as space, aerospace and hybrid automotive applications. This product 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**



### **ELECTRICAL SPECIFICATIONS**

#### **Temperature Coefficient**

COG: 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

COG: 0.15% Max @ 25°C, 1.0 $\pm$ 0.2 Vrms (open circuit voltage) at 1KHz X7R/X9U: 2.5% Max @ 25°C, 1.0 $\pm$ 0.2 Vrms (open circuit voltage) at 1KHz

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

Insulation Resistance 125°C (MIL-STD-202 Method 302) 10K M $\Omega$  or 100 M $\Omega$ - $\mu$ F, whichever is less.

Insulation Resistance 200°C (MIL-STD-202 Method 302) 1k M $\Omega$  or 10 M $\Omega$  - $\mu$ F, 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)

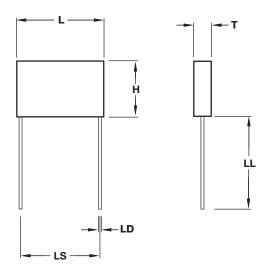




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### **STYLE**



### **DIMENSIONS**

### millimeters (inches)

AVX Style	Length (L)	Height (H)	Thickness (T)	Lead Spacing	LD	LL
	±0.25 (±0.010)	±0.25 (±0.010)	±0.25 (±0.010)	±0.76 (±0.030)	±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)	25.4 (1.000)
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**

### C<sub>0</sub>G

St	yle	50V	100V	200V	500V	1000V	1500V	2000V	3000V
SXP	(MIN)	1000pF	1000pF	1000pF	100pF	100pF	100pF	100pF	100pF
OAI	(MAX)	.047µF	.027µF	8200pF	4700pF	2200pF	1000pF	560pF	270pF
SXP	(MIN)	.01µF	1000pF	1000pF	100pF	100pF	100pF	100pF	100pF
OAI /	(MAX)	.10µF	.056µF	.018µF	8200pF	4700pF	1800pF	1200pF	560pF
SXP	(MIN)	.01µF	1000pF	1000pF	1000pF	1000pF	100pF	100pF	100pF
OXI (	(MAX)	.15µF	.068µF	.022µF	.012µF	6800pF	2700pF	1500pF	1000pF
SXP	(MIN)	.01µF	.01µF	1000pF	1000pF	1000pF	1000pF	100pF	100pF
OXF.	(MAX)	.39µF	.22µF	.068µF	.033µF	.018µF	8200pF	4700pF	2700pF

### **VHT**

Style	50	<b>V</b>	100V	200V	500V	1000V	1500V	2000V	3000V
SXP1 (N	11N) .1µ	F	.01µF	.01µF	.01µF	.01µF	.01µF	1000pF	1000pF
OXI I	AX) 1.5µ	ıF	1.0μF	.33µF	.12µF	.056µF	.022µF	.012µF	4700pF
SXP2 (N	11N) .1µ	F	.1μF	.01µF	.01µF	.01µF	.01µF	.01µF	1000pF
	AX) 2.7µ	ıF	1.8µF	.68µF	.27µF	.10µF	.056µF	.022µF	8200pF
SXP3 (N	11N) .01µ	ıF	.1μF	.01µF	.01µF	.01µF	.01µF	.01µF	.01µF
(M	AX) 3.9µ	ıF	$2.7\mu F$	1.0µF	.33µF	.15µF	.082µF	.033µF	.015µF
SXP4 (N	11N) 1µ	F	.1μF	.1µF	.01µF	.01µF	.01µF	.01µF	.01µF
(M	AX) 12µ	ıF	8.2µF	2.7µF	1.0µF	.47µF	.22µF	.10µF	.039µF

