SYFER TECHNOLOGY LIMITED
A DOVER Company

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Friday 7th July 2006

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PARTFINDER

Multilayer Ceramic Capacitors
High Voltage SM Capacitors
Leaded Capacitors
Surface Mount EMI Filters
Panel Mount EMI Filters
Planar Arrays / Discoidals
X2Y Technology

Technical Information
SM Quick Reference Guide
EMI Quick Reference Guide
Policy & Approvals
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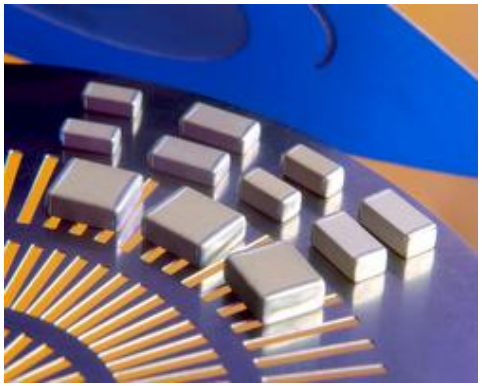
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Multilayer Ceramic Capacitors



PRODUCT CODE GENERATOR, SURFACE MOUNT CAPACITORS 16V - 6kV

Please use the Product Code Generator below to create a part number from within our current standard range.

If the generator does not permit the specific combination of parameters you require, please contact our Sales Office to discuss any particular requirements or special applications.

Product Details	
Product Code:	**0805H1000471KXT**
Case Size:	0805
Reel Quantity:	3000
Voltage:	100V
Capacitance:	470pF
Tolerance:	+/-10%
Dielectric:	X7R
Termination:	FlexiCap, matte Sn (min10% Pb) finish
RoHS:	Non-Compliant

Request Sample Request Quote

See the PRODUCT INFO panel on the right for more details:

PRODUCT INFO

Select a product related PDF from the list below:

DATA SHEETS

- SM Quick Ref Guide (59KB)

TECHNICAL

- MLCC Handling & Soldering (170KB)
- Dielectric Material (175KB)
- MLCC Dimensions (53KB)
- Product Quality and Safety (102KB)
- MLCC Packaging (91KB)

APPLICATION

- RoHS Compliance List (50KB)
- AN0001 Polymer Termination (381KB)
- AN0004 Quality & Reliability Data (362KB)
- AN0005 Mechanical Cracking (184KB)
- AN0006 Ageing (357KB)
- AN0008 Lead-Free (598KB)
- AN0012 Lighting Ballasts (225KB)
- AN0013 Packaging Labels (277KB)

Ordering information for Surface Mount Chip Capacitors

Example: .....0805 J 100 0101 J C T □□□

Type No/Size ref

Termination

J = Silver Termination base with Ni Barrier (100% matte tin plating finish).

Y = FlexiCap™ Termination base with Ni Barrier (100% matte tin plating finish).

A = Silver Termination base with Ni Barrier (Tin / Lead plating finish with min 10% Lead).

H = FlexiCap™ Termination base with Ni Barrier (Tin / Lead plating finish with min 10% Lead).

F = Silver / Palladium termination.

Voltage d.c.

016 = 16 Volts	1K0 = 1kV
025 = 25 Volts	2K0 = 2kV
050 = 50 Volts	3K0 = 3kV
063 = 63 Volts	4K0 = 4kV
100 = 100 Volts	5K0 = 5kV
200 = 200 Volts	6K0 = 6KV
250 = 250 Volts	
500 = 500 Volts	
630 = 630 Volts	

Capacitance (pF)

First digit - 0
Second digit - First significant figure of capacitance value
Third digit - Second significant figure of capacitance value
Fourth digit - Number of zeros following. eg. 0102 = 1000pF.

For values that do not fit the model above, insert the capacitance code letter for the decimal point
e.g. 8P20 = 8.2pF
13N6 = 13.6nF

Suffix Code

The remaining alpha/numeric digits are used to denote variations from standard products to customer special requirements (electrical, packing, mechanical, environmental, coding etc.)

Taped and Reeled Chips (see applicable individual catalogue page for quantities)

T = 178mm (7" reel)
R = 330mm (13" reel)
B = Bulk pack - tubs

Dielectric code

Dielectric		Classes		
Class	**Code**	**CECC**	**EIA**	**MIL**
Ultra stable	C	1B/CG	C0G(NP0)	CG/(BP)
Stable	X	2R1	X7R	
Ultra High Frequency	Q			
To special order				
Stable	B	2X1		BX
Stable	R	2C1		BZ

Capacitance Tolerance Code

Ultra stable class			Stable class	
Cr < 10pF	± 0.10 pF	B	± 5%	J
	± 0.25 pF	C	± 10%	K
	± 0.5 pF	D	± 20%	M
Cr ≥ 10pF	± 1%	F		
	± 2%	G		
	± 5%	J		
	± 10%	K		

		0603	0805	1206	1210	1808	1812	2220	2225	3640	5550	8060
16V	C0G	0.47p-1.5n	1.0p-6.8n	1.0p-22n	3.9p-33n	4.7p-33n	10p-100n	10p-150n	10p-220n	n/a	n/a	n/a
	X7R	100p-100n	100p-330n	100p-1.0µ	1.0n-1.5µ	15p-1.5µ	3.9n-3.3µ	10n-5.6µ	18n-6.8µ	n/a	n/a	n/a
25V	C0G	0.47p-1.0n	1.0p-4.7n	1.0p-15n	3.9p-22n	4.7p-27n	10p-68n	10p-100n	10p-150n	n/a	n/a	n/a
	X7R	100p-56n	100p-220n	100p-820n	1.0n-1.2µ	15p-1.2µ	3.9n-2.2µ	10n-4.7µ	18n-5.6µ	n/a	n/a	n/a
50/63V	C0G	0.47p-470p	1.0p-2.7n	1.0p-10n	3.9p-18n	4.7p-18n	10p-33n	10p-68n	10p-100n	10p-220n	390p-390n	680p-680n
	X7R	100p-47n	100p-180n	100p-470n	1.0n-1.0µ	15p-680n	3.9n-1.5µ	10n-2.2µ	18n-3.3µ	390p-4.7µ	560p-8.2µ	10n-15µ
100V	C0G	0.47p-330p	1.0p-1.8n	1.0p-6.8n	3.9p-12n	4.7p-12n	10p-27n	10p-47n	10p-68n	10p-180n	390p-330n	680p-560n
	X7R	100p-10n	100p-47n	100p-150n	1.0n-470n	15p-330n	3.9n-1.0µ	10n-1.5µ	18n-1.5µ	390p-3.3µ	560p-6.8µ	10n-10µ
200/250V	C0G	0.47p-100p	1.0p-680p	1.0p-2.2n	3.9p-4.7n	4.7p-4.7n	10p-12n	10p-22n	10p-27n	10p-82n	390p-120n	680p-270n
	X7R	100p-5.6n	100p-27n	100p-100n	1.0n-180n	15p-180n	3.9n-470n	10n-680n	18n-1.0µ	390p-1.5µ	560p-3.9µ	10n-8.2µ
500V	C0G	n/a	1.0p-330p	1.0p-1.5n	3.9p-3.3n	4.7p-3.3n	10p-10n	10p-15n	10p-22n	10p-56n	390p-100n	680p-180n
	X7R	n/a	10p-8.2n	10p-33n	15p-100n	15p-100n	22p-270n	180p-560n	180p-820n	390p-1.0µ	560p-1.8µ	10n-3.3µ
630V	C0G	n/a	1.0p-180p	1.0p-1.0n	3.9p-1.8n	4.7p-2.2n	10p-5.6n	10p-10n	10p-15n	10p-39n	390p-68n	680p-150n
	X7R	n/a	n/a	10p-10n	15p-27n	15p-33n	22p-150n	180p-330n	180p-390n	390p-680n	560p-1.2µ	10n-2.2µ
1kV	C0G	n/a	n/a	1.0p-470p	3.9p-1.0n	4.7p-1.2n	10p-3.3n	10p-8.2n	10p-10n	10p-22n	390p-39n	680p-68n
	X7R	n/a	n/a	10p-4.7n	15p-15n	15p-18n	22p-56n	180p-120n	180p-150n	390p-180n	560p-390n	10n-1.0µ
2kV	C0G	n/a	n/a	1.0p-100p	3.9p-220p	4.7p-220p	10p-820p	10p-1.8n	10p-2.2n	10p-5.6n	390p-10n	680p-18n
	X7R	n/a	n/a	10p-1.0n	15p-2.2n	15p-2.2n	22p-4.7n	180p-12n	180p-15n	390p-47n	560p-82n	10n-150n
3kV	C0G	n/a	n/a	n/a	n/a	4.7p-100p	10p-390p	10p-820p	10p-1.0n	10p-2.2n	390p-4.7n	680p-8.2n
	X7R	n/a	n/a	n/a	n/a	15p-1.0n	22p-1.8n	180p-5.6n	180p-6.8n	390p-18n	560p-39n	10n-68n
4kV	C0G	n/a	n/a	n/a	n/a	1.0p-150p*	2.2p-390p*	10p-1.0n*	10p-1.2n*	10p-1.0n	390p-2.2n	680p-4.7n
	X7R	n/a	n/a	n/a	n/a	100p-1.0n*	100p-2.2n*	100p-4.7n*	100p-5.6n*	390p-6.8n	560p-15n	10n-33n
5kV	C0G	n/a	n/a	n/a	n/a	1.0p-82p*	2.2p-270p*	10p-680p*	10p-820p*	10p-560p	390p-1.5n	680p-3.3n
	X7R	n/a	n/a	n/a	n/a	100p-680p*	100p-1.2n*	100p-3.9n*	100p-4.7n*	n/a	560p-8.2n	10n-18n
6kV	C0G	n/a	n/a	n/a	n/a	1.0p-56p*	2.2p-220p*	10p-470p*	10p-560p*	n/a	n/a	n/a
	X7R	n/a	n/a	n/a	n/a	68p-390p*	100p-1.0n*	100p-2.2n*	100p-2.7n*	n/a	n/a	n/a

* These parts may require conformal coating post soldering.

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