



Saturday 2nd March 2013

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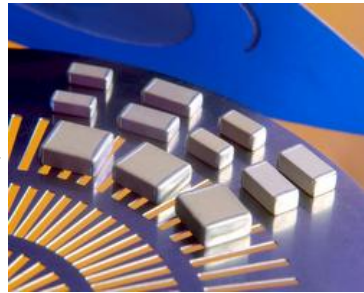
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Multilayer Ceramic Capacitors



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:	1812Y2K00103MXT
Case Size:	1812
Reel Quantity:	1000
Voltage:	2000 V
Capacitance:	10 nF
Tolerance:	+/-20%
Dielectric:	X7R
Termination:	FlexiCap, 100% matte Sn finish
RoHS:	Compliant

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



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PRODUCT INFO

Select a product related PDF from the list below:

DATA SHEETS

[SM Quick Reference Guide \(244KB\)](#)
[MLC Capacitor catalogue \(6.26MB\)](#)

TECHNICAL

[MLCC Handling & Soldering \(170KB\)](#)
[Dielectric Material \(175KB\)](#)
[MLCC Dimensions \(180KB\)](#)
[MLCC Packaging \(476KB\)](#)

APPLICATION

[AN0001 Flexicap \(299KB\)](#)
[AN0004 Quality and Reliability Data \(185KB\)](#)
[AN0005 Mechanical Cracking \(103KB\)](#)
[AN0006 Ageing \(105KB\)](#)
[AN0008 Lead-Free \(143KB\)](#)
[AN0012 Lighting Ballasts \(51KB\)](#)
[AN0013 Packaging Labels \(39KB\)](#)
[RoHS Compliance List \(50KB\)](#)

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	COG(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	