



DATA SHEET

SURFACE-MOUNT CERAMIC MULTILAYER CAPACITORS General purpose Class 1, NPO 16 V TO 50 V 0.22 pF to 33 nF

RoHS compliant & Halogen Free



YAGEO Phícomp

YAGEO Phícomp

<u>SCOPE</u>

This specification describes NP0 series chip capacitors with lead-free terminations.

APPLICATIONS

- Consumer electronics for example
 - Tuners
 - Television receivers
 - All types of cameras
- Telecommunications
- Data processing

<u>feature</u>s

- Supplied in tape on reel
- Nickel-barrier end termination
- RoHS compliant
- Halogen Free compliant

ORDERING INFORMATION - GLOBAL PART NUMBER, PHYCOMP

CTC & 12NC

All part numbers are identified by the series, size, tolerance, TC material, packing style, voltage, process code, termination and capacitance value.

YAGEO BRAND ordering code

GLOBAL PART NUMBER (PREFERRED)

СС	<u>xxxx</u>	<u>x</u>	<u>x</u>	NPO	<u>x</u> BN	<u>xxx</u>
	(I)	(2)	(3)		(4)	(5)

(I) SIZE – INCH BASED (METRIC)

0201	(0603)
0402	(1005)
0603	(1608)
0805	(2012)
1206	(3216)
1210	(3225)
1812	(4532)

(2) TOLERANCE

$B = \pm 0.1 \text{ pF}$
$C = \pm 0.25 \text{ pF}$
D = ±0.5 pF
$F = \pm 1\%$
$G = \pm 2\%$
$J = \pm 5\%$

(3) PACKING STYLE

- R = Paper/PE taping reel; Reel 7 inch
- K = Blister taping reel; Reel 7 inch
- P = Paper/PE taping reel; Reel 13 inch
- F = Blister taping reel; Reel 13 inch
- C = Bulk case

(4) RATED VOLTAGE

- 7 = 16 V
- 8 = 25 V
- 9 = 50 V

(5) CAPACITANCE VALUE

2 significant digits+number of zeros

The 3rd digit signifies the multiplying factor, and letter R is decimal point

Example: $121 = 12 \times 10^{1} = 120 \text{ pF}$



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	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15

PHYCOMP BRAND ordering codes

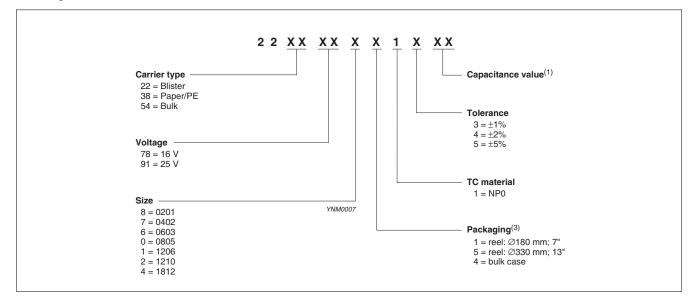
GLOBAL PART NUMBER (preferred), PHYCOMP CTC (for North America) and I2NC (traditional) codes are acceptable to order Phycomp brand products.

GLOBAL PART NUMBER (PREFERRED)

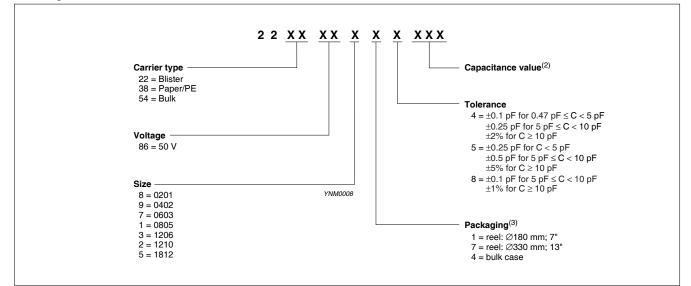
For detailed information of GLOBAL PART NUMBER and ordering example, please refer to page 2.

12NC CODE

Ordering information for 16 V to 25 V



Ordering information for 50 V



(1) Please refer to "Last 2-digit of 12NC" in "CAPACITANCE RANGE & THICKNESS FOR NP0"

- (2) Please refer to "Last 3-digit of 12NC" in "CAPACITANCE RANGE & THICKNESS FOR NP0"
- (3) Quantity on reel depends on thickness classification; see table 6



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PHYCOMP CTC CODE (FOR NORTH AMERICA)

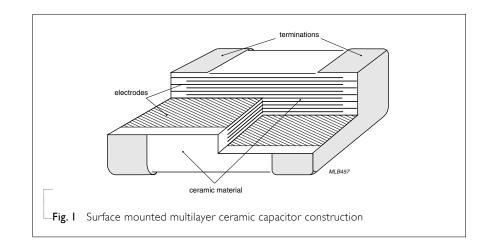
• Example: 0603CG271J7B200

0603	CG	271	J	7	В	2	0	0
Size code	Temp. Char.	Capacitance in pF	Tolerance	Voltage	Termination	Packing	Marking	Range identifier
0201 0402 0603 0805 1206	CG = NPO	101 = 100 pF; the third digit signifies the multiplying factor: $0 = \times 1$ $1 = \times 10$	$B = \pm 0.1 \text{ pF}$ $C = \pm 0.25 \text{ pF}$ $D = \pm 0.5 \text{ pF}$ $F = \pm 1\%$ $G = \pm 2\%$	7 = 16 V 8 = 25 V 9 = 50 V	B = NiSn	2 = 180 mm 7" paper 3 = 330 mm 13" paper B = 180 mm 7" blister	0 = no marking	0 = conv. ceramic
2 0 8 2		$2 = \times 10^{\circ}$ $2 = \times 10^{\circ}$ $3 = \times 1,000^{\circ}$	J = ±5%			F = 330 mm I 3'' blister P = Bulk case		

CONSTRUCTION

The capacitor consists of a rectangular block of ceramic dielectric in which a number of interleaved metal electrodes are contained. This structure gives rise to a high capacitance per unit volume.

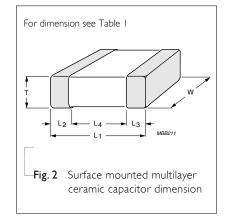
The inner electrodes are connected to the two end terminations and finally covered with a layer of plated tin (NiSn). The terminations are lead-free. A cross section of the structure is shown in Fig.1.



DIMENSION

Tabl	Table I For outlines see fig. 2								
TYPE	L _I (mm)	W (mm)	T (MM)	L ₂ / L ₃	3 (mm)	L ₄ (mm)			
	=1 ()		. ()	min.	max.	min.			
0201	0.6 ±0.03	0.3 ±0.03	_	0.10	0.20	0.20			
0402	1.0 ±0.05	0.5 ±0.05	_	0.20	0.30	0.40			
0603	1.6 ±0.10	0.8 ±0.10	_	0.20	0.60	0.40			
0805	2.0 ±0.10 ⁽¹⁾	1.25 ±0.10 ⁽¹⁾		0.25	0.75				
0005	2.0 ±0.20 ⁽²⁾	1.25 ±0.20 ⁽²⁾	Refer to - table 2 to 5	0.25	0.75	0.55			
1206	3.2 ±0.15 ⁽¹⁾	Ⅰ.6 ±0.15 ⁽¹⁾		0.25	0.75	1.40			
1200	3.2 ±0.30 ⁽²⁾	1.6 ±0.20 ⁽²⁾	_	0.25	0.75	1.40			
1210	3.2 ±0.20	2.5 ±0.20	_	0.25	0.75	1.40			
1812	4.5 ±0.20	3.2 ±0.20		0.25	0.75	2.20			

OUTLINES



NOTE

I. Dimension for size 0805 and 1206, C \leq I nF

2. Dimension for size 0805 and 1206, C > 1 nF



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	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15

	Sizes from 020	01 to 0603								
CAP.	Last 3-digit of I2NC	Last 2-digit of I2NC	0201 25 V	50 V	0402 16 V	25 V	50 V	0603 16 V	25 V	50 V
0.22 pF		12110	25 (50 7	10 1	25 7	50 1		25 7	50 1
0.47 pF										
0.82 pF										
I.0 pF										
1.2 pF										
I.5 pF	158									
I.8 pF	188									
2.2 pF	228	On request								
2.7 pF	278									
3.3 pF	338									
3.9 pF	398									
4.7 pF	478									
5.6 pF	568									
6.8 pF	688			021002						
8.2 pF	828			0.3±0.03			0.5±0.05			0.8±0.1
I0 pF	109	23								
I2 pF	129	24								
I5 pF	159	25								
I8 pF	189	26								
22 pF	229	27								
27 pF	279	28								
33 pF	339	29	0.3±0.03		0.5±0.05	0.5±0.05		0.8±0.1	0.8±0.1	
39 pF	399	31								
47 pF	479	32								
56 pF	569	33								
68 pF	689	34								
82 pF	829	35								
100 pF	101	36								

ΝΟΤΕ

1. Values in shaded cells indicate thickness class in mm

2. Capacitance value of non E-12 series is on request

3. 16V to 25V, refer to last 2-digit of 12NC



YAGEO	Phícomp			Product specification	6
	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15

Table 3	Sizes from 020	01 to 0603 (cont	tinued)							
CAP.		Last 2-digit of	0201		0402			0603		
	I2NC	I2NC	25 V	50 V	16 V	25 V	50 V	16 V	25 V	50 V
120 pF	121	37								
150 pF	151	38								
180 pF	181	39								
220 pF	221	41			0.5±0.05	0.5±0.05	0.5±0.05			
270 pF	271	42								
330 pF	331	43								
390 pF	391	44								
470 pF	471	45								
560 pF	561	46						0.8±0.1	0.8±0.1	0.8±0.1
680 pF	681	47						0.0±0.1	0.0±0.1	0.0±0.1
820 pF	821	48								
I.0 nF	102	49								
I.2 nF	122	51								
I.5 nF	152	52								
I.8 nF	182	53								
2.2 nF	222	54								
2.7 nF	272	55								
3.3 nF	332	56								
3.9 nF	392	57								
4.7 nF	472	58								
5.6 nF	562	59								
6.8 nF	682	61								
8.2 nF	822	62								
10 nF	103	63								
l2 nF	123	64								
15 nF	153	65								
18 nF	183	66								
22 nF	223	67								
33 nF	333	69								

NOTE

I. Values in shaded cells indicate thickness class in mm

2. Capacitance value of non E-12 series is on request

3. 16V to 25V, refer to last 2-digit of 12NC



YAGEO	Phícomp			Product specification	7
	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15

	Sizes from 08	05 to 1812									
CAP.	Last 3-digit of I2NC	Last 2-digit of I2NC	0805 16 V	25 V	50 V	1206 16 V	25 V	50 V	1210 25 V	50 V	1812 50 V
0.22 pF	227										
0.47 pF	477										
0.82 pF	827										
1.0 pF	108										
I.2 pF	128										
1.5 pF	158										
1.8 pF	188										
2.2 pF	228	On request									
2.7 pF	278										
3.3 pF	338										
3.9 pF	398										
4.7 pF	478										
5.6 pF	568										
6.8 pF	688										
8.2 pF	828				0.6±0.1			0.6±0.1			
10 pF	109	23									
I2 pF	129	24									
15 pF	159	25									
18 pF	189	26									
22 pF	229	27									
27 pF	279	28									
33 pF	339	29	0.6±0.1	0.6±0.1		0.6±0.1	0.6±0.1				
39 pF	399	31									
47 pF	479	32									
56 pF	569	33									
68 pF	689	34							1.25±0.2	1.25±0.2	
82 pF	829	35									
100 pF	101	36									

ΝΟΤΕ

1. Values in shaded cells indicate thickness class in mm

2. Capacitance value of non E-12 series is on request

3. I6V to 25V, refer to last 2-digit of I2NC



YAGEO	Phícomp			Product specification	8
	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15

Table !	5 Sizes from 08	805 to 1812 (co	ntinued)								
CAP.		Last 2-digit of I2NC	0805 16 V	25 V	50 V	1206 16 V	25 V	50 V	1210 25 V	50 V	1812 50 V
120 - 5	12NC		10 V	23 V	50 V	10 V	25 V	50 V	25 V	50 V	50 V
120 pF		37 38									
150 pF											
180 pF		39 41									
220 pF 270 pF		41									
330 pF		43									
390 pF		44	0.6±0.1	0.6±0.1	0.6±0.1						
470 pF		45									
560 pF		46				0.6±0.1	0.6±0.1	06+01	1.25±0.2	125+02	
680 pF		47				0.0 - 0.1	0.0±0.1	0.0±0.1	1,20 ± 0,2	1,20 ±0,2	
820 pF		48									
1.0 nF		49									
1.2 nF		51									
1.5 nF	152	52		0.85±0.1							
I.8 nF		53	1.25±0.2	1.25±0.2	1.25±0.2						
2.2 nF	222	54									
2.7 nF	272	55									1.25±0.2
3.3 nF	332	56									
3.9 nF	392	57									
4.7 nF	472	58	1.25±0.2	1.25±0.2	1.25±0.2	0.85±0.1	0.85±0.1	0.85±0.1			
5.6 nF	562	59							1.0±0.15	1.0±0.15	
6.8 nF	682	61									
8.2 nF	822	62									
10 nF	103	63									
I2 nF	123	64				1.25±0.2	1.25±0.2	1.25±0.2			
15 nF	153	65				1.23±0.2			1.25±0.2	1.25±0.2	
18 nF	183	66									
22 nF	223	67							2.0±0.2	2.0±0.2	
33 nF	333	69				1.6±0.2					

ΝΟΤΕ

1. Values in shaded cells indicate thickness class in mm

2. Capacitance value of non E-12 series is on request

3. I6V to 25V, refer to last 2-digit of I2NC



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THICKNESS CLASSES AND PACKING QUANTITY

Table 6							
SIZE	THICKNESS	TAPE WIDTH -	Ø180 MM	/ 7 INCH	Ø330 MM	/ 13 INCH	QUANTITY
CODE	CLASSIFICATION	QUANTITY PER REEL	Paper	Blister	Paper	Blister	PER BULK CASE
0201	0.3 ±0.03 mm	8 mm	15,000		50,000		
0402	0.5 ±0.05 mm	8 mm	10,000		50,000		50,000
0603	0.8 ±0.1 mm	8 mm	4,000		15,000		15,000
	0.6 ±0.1 mm	8 mm	4,000		20,000		10,000
0805	0.85 ±0.1 mm	8 mm	4,000		15,000		8,000
	1.25 ±0.2 mm	8 mm		3,000		10,000	5,000
	0.6 ±0.1 mm	8 mm	4,000		20,000		
	0.85 ±0.1 mm	8 mm	4,000		15,000		
1206 -	1.00 / 1.15 ±0.1 mm	8 mm		3,000		10,000	
1200	1.25 ±0.2 mm	8 mm		3,000		10,000	
_	1.6 ±0.15 mm	8 mm		2,500		10,000	
	1.6 ±0.2 mm	8 mm		2,000		10,000	
_	0.6 / 0.7 ±0.1 mm	8 mm		4,000		15,000	
	0.85 ±0.1 mm	8 mm		4,000		10,000	
_	1.0 ±0.1 mm	8 mm		3,000		10,000	
_	1.15 ±0.1 mm	8 mm		3,000		10,000	
_	1.15 ±0.15 mm	8 mm		3,000		10,000	
1210	1.25 ±0.2 mm	8 mm		3,000			
_	1.5 ±0.1 mm	8 mm		2,000			
_	1.6 / 1.9 ±0.2 mm	8 mm		2,000			
	2.0 ±0.2 mm	8 mm		2,000 1,000			
	2.5 ±0.2 mm	8 mm		1,000 500			
_	1.15 ±0.15 mm	l2 mm		3,000			
_	1.25 ±0.2 mm	l2 mm		3,000			
1808	1.35 ±0.15 mm	l2 mm		2,000			
1000	1.5 ±0.1 mm	l2 mm		2,000			
_	1.6 ±0.2 mm	12 mm		2,000			
	2.0 ±0.2 mm	l2 mm		2,000			
_	0.6 / 0.85 ±0.1 mm	l2 mm		2,000			
_	1.15 ±0.1 mm	12 mm		1,000			
_	1.15 ±0.15 mm	l2 mm		1,000			
1812 -	1.35 ±0.15 mm	l2 mm		1,000			
1012	1.5 ±0.1 mm	l2 mm		1,000			
	1.6 ±0.2 mm	l2 mm		1,000			
	2.0 ±0.2 mm	l2 mm		000, ا			
	2.5 ±0.2 mm	l2 mm		500			



Product specification

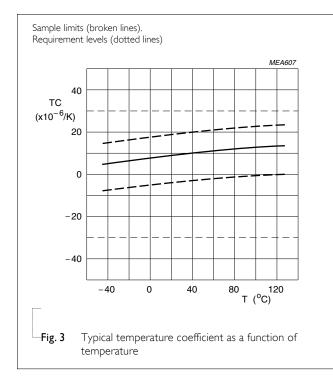
YAGEO	Phícomp			Product specification	10
	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15

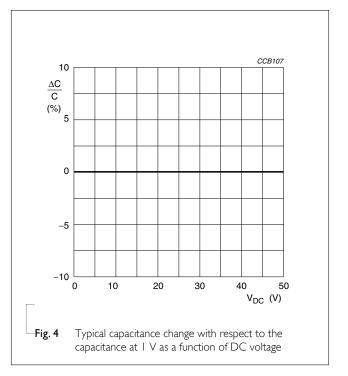
ELECTRICAL CHARACTERISTICS

NP0 DIELECTRIC CAPACITORS; NISN TERMINATIONS

Unless otherwise stated all electrical values apply at an ambient temperature of 20 ± 1 °C, an atmospheric pressure of 86 to 106 kPa, and a relative humidity of 63 to 67%.

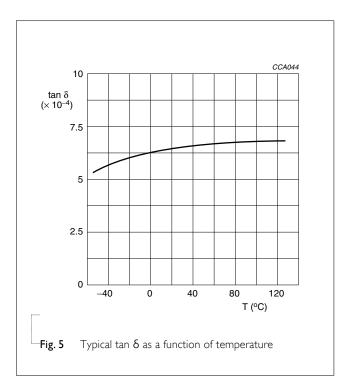
Table 7	
DESCRIPTION	VALUE
Capacitance range	0.22 pF to 33 nF
Capacitance tolerance	
C < 10 _P F	±0.1 pF, ±0.25 pF, ±0.5 pF
C ≥ 10 pF	±1%, ±2%, ±5%
Dissipation factor (D.F.)	
C < 30 _P F	≤ I / (400 + 20C)
C ≥ 30 pF	≤ 0,1 %
Insulation resistance after I minute at U _r (DC)	$R_{ins} \ge 10 \text{ G}\Omega \text{ or } R_{ins} \times C_r \ge 500 \text{ seconds whichever is less}$
Maximum capacitance change as a function of temperature	
(temperature characteristic/coefficient):	±30 ppm/°C
Operating temperature range:	–55 °C to +125 °C







YAGEO	Phícomp			Product specification 11
	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V



SOLDERING RECOMMENDATION

Table 8					
SOLDERING METHOD	SIZE 0402	0603	0805	1206	≥ 1210
Reflow	≥ 0.1 µF	≥ I.0 µF	≥ 2.2 µF	≥ 4.7 µF	Reflow only
Reflow/Wave	< 0.1 µF	< 1.0 µF	< 2.2 µF	< 4.7 µF	

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TESTS AND REQUIREMENTS

TEST	TEST METI	HOD	PROCEDURE	REQUIREMENTS
Mounting	IEC 60384- 21/22	4.3	The capacitors may be mounted on printed-circuit boards or ceramic substrates	No visible damage
Visual inspection and dimension check		4.4	Any applicable method using × 10 magnification	In accordance with specification
Capacitance		4.5.1	Class I: $f = I$ MHz for C $\leq I$ nF, measuring at voltage I V _{rms} at 20 °C $f = I$ KHz for C $\geq I$ nF, measuring at voltage I V _{rms} at 20 °C	Within specified tolerance
Dissipation factor (D.F.)		4.5.2	Class I: $f = 1$ MHz for C ≤ 1 nF, measuring at voltage 1 V _{rms} at 20 °C f = 1 KHz for C > 1 nF, measuring at voltage 1 V _{rms} at 20 °C	In accordance with specification
Insulation resistance		4.5.3	At U _r (DC) for I minute	In accordance with specification
Temperature coefficient		4.6	Class I: Between minimum and maximum temperature NP0: -55 °C to +125 °C Normal Temperature: 20 °C	<general purpose="" series=""> ΔC/C: Class 1: NP0: ±30 ppm/°C</general>
Adhesion		4.7	A force applied for 10 seconds to the line joining the terminations and in a plane parallel to the substrate	Force size ≥ 0603: 5N size = 0402: 2.5N size = 0201: 1N
Bond strength of		4.8	Mounting in accordance with IEC 60384-22 paragraph 4.3	No visible damage
plating on end face			Conditions: bending I mm at a rate of I mm/s, radius jig 340 mm	<pre><general purpose="" series=""> $\Delta C/C$ Class 1: NP0: within ±1% or 0.5 pF whichever is greater</general></pre>

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TEST	TEST METH	HOD	PROCEDURE	REQUIREMENTS
Resistance to soldering heat	IEC 60384- 21/22	4.9	Precondition: $150 \pm 0/-10$ °C for 1 hour, then keep for 24 ±1 hours at room temperature Preheating: for size ≤ 1206 : 120 °C to 150 °C for 1 minute Preheating: for size >1206 : 100 °C to 120 °C for 1 minute and 170 °C to 200 °C for 1 minute Solder bath temperature: 260 ± 5 °C Dipping time: 10 ± 0.5 seconds Recovery time: 24 ± 2 hours	Dissolution of the end face plating shal not exceed 25% of the length of the edge concerned General purpose series> ΔC/C Class I: NP0: within ±0.5% or 0.5 pF whichever is greater D.F. within initial specified value
				R _{ins} within initial specified value
Solderability		4.10	Preheated the temperature of 80 °C to 140 °C and maintained for 30 seconds to 60 seconds.	The solder should cover over 95% of the critical area of each termination
			Test conditions for lead containing solder alloy	
			Temperature: 235 \pm 5 °C	
			Dipping time: 2 ± 0.2 seconds	
			Depth of immersion: 10 mm	
			Alloy Composition: 60/40 Sn/Pb	
			Number of immersions: I	
			Test conditions for lead-free containing solder alloy	
			Temperature: 245 ±5 °C	
			Dipping time: 3 \pm 0.3 seconds	
			Depth of immersion: 10 mm	
			Alloy Composition: SAC305	
			Number of immersions: I	
Rapid change of		4.11	Preconditioning; 150 +0/–10 °C for 1 hour, then keep for	No visual damage
temperature			24 ±1 hours at room temperature	<general purpose="" series=""></general>
				$\Delta C/C$
			5 cycles with following detail:	Class I:
			30 minutes at lower category temperature 30 minutes at upper category temperature	NP0: within ±1% or 1 pF whichever is greater
			Recovery time 24 \pm 2 hours	
			-	DE most initial specified value
				D.F. meet initial specified value

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Surface-Mount Ceramic Multilayer Capacitors General Purpose NP0 16 V to 50 V

Product specif

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TEST	TEST METH	IOD	PROCEDURE	REQUIREMENTS	
TEST Damp heat with U _r load	TEST METH IEC 60384- 21/22	4.13	 Preconditioning, class 2 only: 150 +0/-10 °C /1 hour, then keep for 24 ±1 hour at room temp Initial measure: Spec: refer to initial spec C, D, IR Damp heat test: 500 ±12 hours at 40 ±2 °C; 90 to 95% R.H. 1.0 U_r applied Recovery: Class 1: 6 to 24 hours Final measure: C, D, IR 	REQUIREMENTSNo visual damage after recovery $<$ General purpose series> $\Delta C/C$ Class 1:NP0: within $\pm 2\%$ or 1 pFwhichever is greaterD.F.Class 1:NP0: $\leq 2 \times$ specified valueR _{ins} Class 1:	
			P.S. If the capacitance value is less than the minimum value permitted, then after the other measurements have been made the capacitor shall be preconditioned according to <i>"IEC 60384 4.1"</i> and then the requirement shall be met.	NP0: \geq 2,500 M Ω or $R_{ins} \times C_r \geq$ 25s whichever is less	
Endurance		4.14	 Preconditioning, class 2 only: 150 +0/-10 °C /1 hour, then keep for 24 ±1 hour at room temp Initial measure: Spec: refer to initial spec C, D, IR Endurance test: Temperature: NP0: 125 °C Specified stress voltage applied for 1,000 hours: Applied 2.0 × U_r for general product. Recovery time: 24 ±2 hours Final measure: C, D, IR P.S. If the capacitance value is less than the minimum value permitted, then after the other measurements have been made the capacitor shall be preconditioned according to <i>"IEC 60384 4.1"</i> and then the requirement shall be met. 	No visual damage General purpose series> $\Delta C/C$ Class I: NP0: within $\pm 2\%$ or 1 pF whichever is greater D.F. Class I: NP0: $\leq 2 \times$ specified value R_{ins} Class I: NP0: $\geq 4,000 \text{ M}\Omega$ or $R_{ins} \times C_r \geq 40s$ whichever is less	
/oltage proof	IEC 60384-1	4.6	Specified stress voltage applied for 1 minute $U_r \le 100 \text{ V}$: series applied 2.5 U_r $100 \text{ V} < U_r \le 200 \text{ V}$ series applied (1.5 $U_r + 100$) $200 \text{ V} < U_r \le 500 \text{ V}$ series applied (1.3 $U_r + 100$) $U_r > 500 \text{ V}$: 1.3 U_r I: 7.5 mA	No breakdown or flashover	



YAGEO	Product specification 1						
	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15		

<u>REVISION HISTORY</u>

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 8	Aug 05, 2011		- Product range updated
Version 7 Jun 14, 2011	I	- Size1210 T=1.0mm SPQ added	
VEISION /	jun 11, 2011	-	- Dimension updated
Version 6	Jan 06, 2011	-	- Dimension updated
Version 5	Dec 29, 2010	-	- Dimension updated
Version 4	Nov 23, 2010	-	- Dimension updated
Version 3	Apr 20, 2010	-	- The statement of "Halogen Free" on the cover added
			- Dimension updated
Version 2	Oct 26, 2009	-	- Typo updated
Version I	Jun 02, 2009	-	- I2NC code updated
Version 0	Apr 15, 2009	-	- New datasheet for general purpose NPO series with RoHS compliant
			- Replace the "16V to 50V" part of pdf files: NP0_16V_7, NP0_16V-to- 100V_6, NP0_25V_7, NP0_50-to-500V_11
			- Combine 0201 from pdf files: UP-NP0X5RX7RY5V_0201_6.3-to-50V_2 and UY-NPOX5RX7RY5V_0201_6.3-to-50V_2
			- Define global part number
			- Description of "Halogen Free compliant" added
			- Test method and procedure updated

