



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 Phicomp

Surface-Mount Ceramic Multilaver Canacitors General Purpose NPO

2

15

<u>SCOPE</u>

This specification describes NP0 series chip capacitors with leadfree 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

<u>CTC & 12NC</u>

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)

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: $|2| = |2 \times |0| = |20 \text{ pF}$



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

PHYCOMP BRAND ordering codes

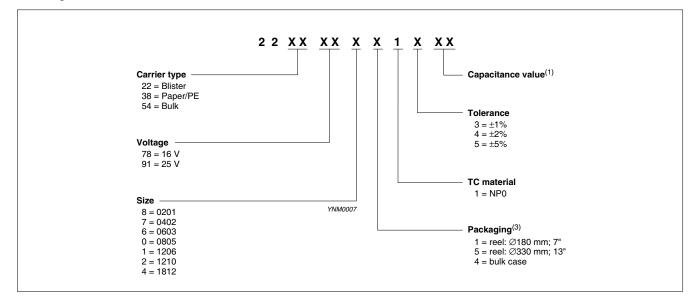
GLOBAL PART NUMBER (preferred), PHYCOMP CTC (for North America) and I2NC (traditional) codes are acceptable to order Phycomp brand products.

GLOBAL PART NUMBER (PREFERRED)

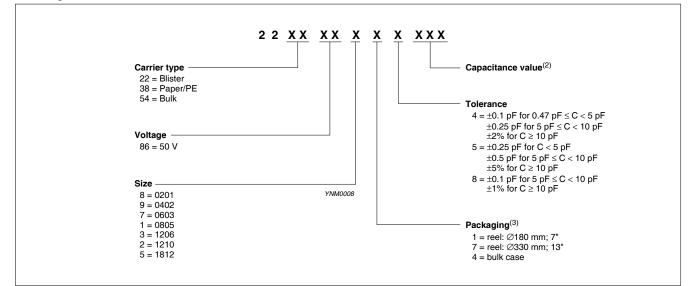
For detailed information of GLOBAL PART NUMBER and ordering example, please refer to page 2.

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)

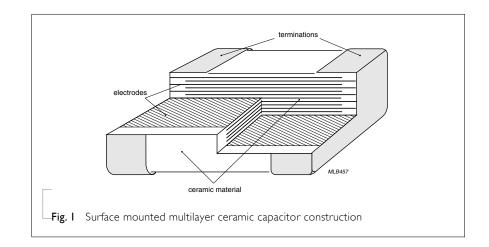
• Example: 0603CG271J7B200

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 1210 1812	CG = NPO	101 = 100 pF; the third digit signifies the multiplying factor: $0 = \times $ $ = \times 0$ $2 = \times 00$ $3 = \times ,000$	$B = \pm 0.1 \text{ pF}$ $C = \pm 0.25 \text{ pF}$ $D = \pm 0.5 \text{ pF}$ $F = \pm 1\%$ $G = \pm 2\%$ $J = \pm 5\%$	7 = 16 V 8 = 25 V 9 = 50 V		2 = 180 mm 7" paper 3 = 330 mm 13" paper B = 180 mm 7" blister F = 330 mm 13" blister	0 = no marking	0 = conv. ceramic
		,				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.

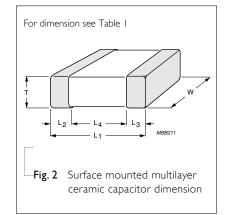
The inner electrodes are connected to the two end terminations and finally covered with a layer of plated tin (NiSn). The terminations are lead-free. A cross section of the structure is shown in Fig. I.



DIMENSION

Table I For outlines see fig. 2									
TYPE	L _I (mm)	W (mm)	T (MM)	L ₂ / L ₃	3 (mm)	L ₄ (mm)			
1115		** (mm)	1 (1.11.1)	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	0.55			
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

Table 2	Sizes from 02	01 to 0603		1110						
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
0.22 pF	227									
0.47 pF	477									
0.82 pF	827									
I.0 pF	108									
I.2 pF	128									
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			0.3±0.03			0.5±0.05			0.8±0.1
8.2 pF	828									
I0 pF	109	23								
12 pF	129	24								
15 pF	159	25								
18 pF	189	26								
22 pF	229	27								
27 pF	279	28 29	0.3±0.03		0.5±0.05	0.5±0.05		0.8±0.1	0.8±0.1	
33 pF	339		0.3±0.03		0.5±0.05	0.5±0.05		0.0±0.1	0.0±0.1	
39 pF	399	31								
47 pF 56 pF	479 569	32 33								
	689	33								
68 pF	829									
82 pF		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

4. 50V, refer to last 3-digit of 12NC



YAGEO	Phicomp			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	05+005	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									
I2 nF	123	64									
I5 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

4. 50V, refer to last 3-digit of 12NC

YAGEO	Phicomp			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											
0.47 pF											
0.82 pF											
I.0 рF											
I.2 pF											
1.5 pF											
1.8 pF											
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									
12 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

4. 50V, refer to last 3-digit of 12NC



YAGEO	Phicomp			Product specification	8
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Table 5	5 Sizes from 08	805 to 1812 (co		<u> 11110</u>							
CAP.	-	Last 2-digit of	0805		F0.)/	1206	25.14	F0.)/	1210	50.1/	1812
120 5	I2NC	I2NC	16 V	25 V	50 V	16 V	25 V	50 V	25 V	50 V	50 V
120 pF	121	37 38									
150 pF	151										
180 pF	181	39									
220 pF	221	41									
270 pF	271	42									
330 pF	331	43	0.6±0.1	0.6±0.1	0.6±0.1						
390 pF	391	44									
470 pF	471	45				0.6±0.1	0(101	0(101	1.25±0.2		
560 pF	561	46				0.6±0.1	0.6±0.1	0.6±0.1	1.23±0.2	1.23±0.2	
680 pF	681	47									
820 pF	821	48									
1.0 nF	102	49									
I.2 nF	122	51	0.85±0.1	0.85±0.1	0.85±0.1						
I.5 nF I.8 nF	152	52 53	1.25±0.2	1.25±0.2	1.25±0.2						
2.2 nF	222	54									
2.2 nF	272	55									1.25±0.2
3.3 nF	332	56									1.23±0.2
3.9 nF	392	57									
4.7 nF	472	58	1.25±0.2	1.25±0.2	1.25±0.2	0.05±01	0.05±0.1	0.05±0.1			
5.6 nF	562	59	1.23±0.2	1.23±0.2	1.23±0.2	0.05±0.1	0.0J±0.1	0.0J±0.1	10+015	1.0±0.15	
6.8 nF	682	61							1.0±0.15	1.0±0.15	
8.2 nF	822	62									
10 nF	103	63									
I2 nF	123	64					1.25±0.2	1.25±0.2			
IZ nF	123	65				1.25±0.2			25+0.2	1.25±0.2	
13 hF	183	66							1,2J⊥U,Z	1,2010,2	
22 nF	223	67							2.0±0.2	2.0±0.2	
33 nF	333	69				1.6±0.2			2.0±0.2	2.0±0.2	
- 33 HF		07				1.0±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. 16V to 25V, refer to last 2-digit of 12NC
- 4. 50V, refer to last 3-digit of 12NC

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THICKNESS CLASSES AND PACKING QUANTITY

Table 6		<u>iacaing guantiti</u>	-				
SIZE	THICKNESS	TAPE WIDTH -	Ø180 MM		Ø330 MM		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	12 mm		3,000			
	1.25 ±0.2 mm	12 mm		3,000			
	1.35 ±0.15 mm	12 mm		2,000			
1808	1.5 ±0.1 mm	12 mm		2,000			
	1.6 ±0.2 mm	12 mm		2,000			
	2.0 ±0.2 mm	12 mm		2,000			
	0.6 / 0.85 ±0.1 mm	12 mm		2,000			
	1.15 ±0.1 mm	l2 mm		1,000			
	1.15 ±0.15 mm	l2 mm		1,000			
	1.35 ±0.15 mm	l2 mm		1,000			
1812	1.5 ±0.1 mm	l2 mm		1,000			
	1.6 ±0.2 mm	12 mm		1,000			
	2.0 ±0.2 mm	12 mm		1,000			
	2.5 ±0.2 mm	12 mm		500			
		12 11111		000			



Product specification

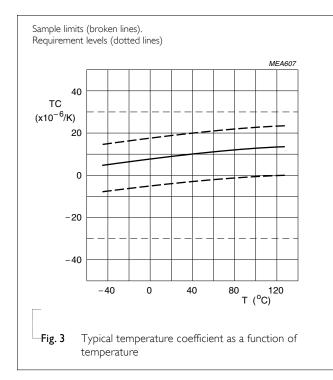
YAGEO	Phícomp			Product specification	10
	Surface-Mount Ceramic Multilayer Capacitors	General Purpose	NP0	16 V to 50 V	15

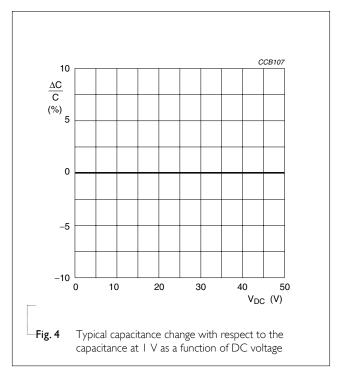
ELECTRICAL CHARACTERISTICS

NP0 DIELECTRIC CAPACITORS; NISN TERMINATIONS

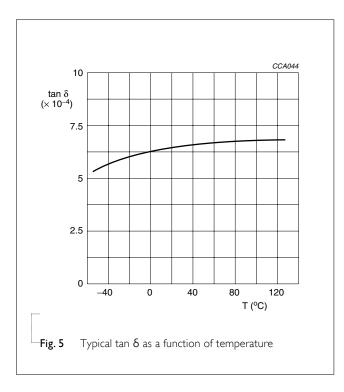
Unless otherwise stated all electrical values apply at an ambient temperature of 20 ± 1 °C, an atmospheric pressure of 86 to 106 kPa, and a relative humidity of 63 to 67%.

Table 7	
DESCRIPTION	VALUE
Capacitance range	0.22 pF to 33 nF
Capacitance tolerance	
C < 10 pF	±0.1 pF, ±0.25 pF, ±0.5 pF
C ≥ 10 pF	±1%, ±2%, ±5%
Dissipation factor (D.F.)	
C < 30 pF	≤ / (400 + 20C)
$C \ge 30 \text{ pF}$	≤ 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	≥ 1.0 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 METH	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: $f = MHz \text{ for } C \le nF$, measuring at voltage $ V_{rms}$ at 20 °C $f = KHz \text{ for } C > nF$, measuring at voltage $ V_{rms}$ at 20 °C	Within specified tolerance
Dissipation factor (D.F.)		4.5.2	Class I: f = 1 MHz for C \leq 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: IN
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>

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

16 V to 50 V	$\frac{13}{15}$
Product specification	13

TEST TEST METHOD		HOD	PROCEDURE	REQUIREMENTS	
Resistance to soldering heat	IEC 60384- 4.9 21/22		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.	Dissolution of the end face plating sha not exceed 25% of the length of the edge concerned	
			and 170 °C to 200 °C for I minute	<general purpose="" series=""></general>	
			Solder bath temperature: 260 \pm 5 °C	$\Delta C/C$	
			Dipping time: 10 ± 0.5 seconds	Class I:	
			Recovery time: 24 ±2 hours	NP0: within $\pm 0.5\%$ 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	The solder should cover over 95% of	
Solder ability			maintained for 30 seconds to 60 seconds.	the critical area of each termination	
			Test conditions for lead containing solder alloy		
			Temperature: 235 ±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 ± 0.3 seconds		
			Depth of immersion: 10 mm		
			Alloy Composition: SAC305 Number of immersions: I		
		4.1.1			
Rapid change of		4.11	Preconditioning; I50 +0/–I0 °C for I 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	NP0: within ±1% or 1 pF	
			30 minutes at upper category temperature	whichever is greater	
			Recovery time 24 \pm 2 hours		
				D.F. meet initial specified value	
				R _{ins} meet initial specified value	

Surface-Mount Ceramic Multilayer Capacitors General Purpose

16	v	to	50	v

TEST	TEST METH	OD	PROCEDURE	REQUIREMENTS	
Damp heat with U _r load	IEC 60384- 4.13 21/22		 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 Ur applied Recovery: Class 1: 6 to 24 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 "IEC 60384 4.1" and then the requirement shall be met. 	No visual damage after recovery General purpose series> $\Delta C/C$ Class 1: NP0: within ±2% or 1 pF whichever is greater D.F. Class 1: NP0: $\leq 2 \times$ specified value R_{ins} Class 1: NP0: $\geq 2,500 \text{ M}\Omega$ 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 "IEC 60384 4.1" 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 $R_{ins} \times C_r \geq 400$ whichever is less	
Voltage 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	



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	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	_	- Size1210 T=1.0mm SPQ added	
Version 7	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