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1. Purpose	versus	Application	characterist	ics:
------------	--------	-------------	--------------	------

The specifications are applicable to Multi-layer Ceramic Chip Capacitor (MLCC): ■ Universal; □ Automotive Grade; 2. The term / Definition:: 2.1 Structural design classification: ■General; □ Ultra Micro; □ High Capacitance; □ High-Q; ☐ High-voltage 2.2 Chip Size: □01005、□0201、■0402、■0603、■0805、■1206、___(Others); 2.3 Capacitance range: 0.1pF~1µF; 2.4 Voltage range: 6.3V~50V;

2.5 Type of Dielectrics: $\blacksquare COG$, $\blacksquare X7R$, $\blacksquare X5R$, $\blacksquare Y5V$, $\blacksquare X7S$, ____(Others);

ADD: Viiyong Hi-Tech Park, No.1 Chuangye 2nd Road, Shuangdong Sub-district, 527200, Luoding City, Guangdong

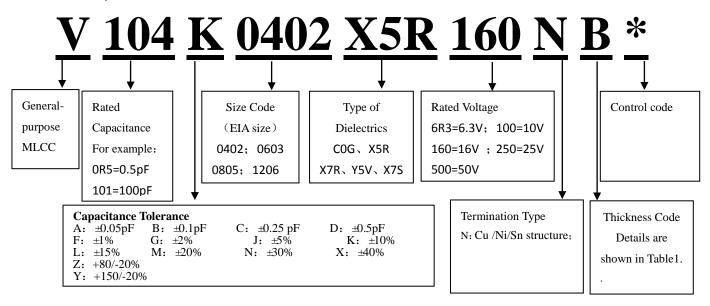
Province, P. R. China

Postcode: 527200 TEL: 0766-3810639 FAX: 0766-3810639

Mark: The product specification is only for reference of design selection, not used as the basis for delivery

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3. Part Number System:



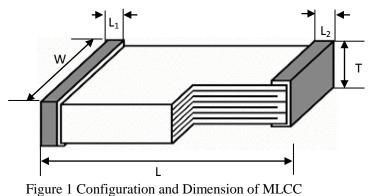


Table 1 Dimension of MLCC (Unite: mm)

Size	Length (L)	Width (W)	Width of Termination	Thickness	Thickness
Size	Lengui (L)	Width (W)	(L1, L2)	(T)	code
0.402	1.00±0.05	0.50±0.05	0.10~0.35	0.50±0.05	В
0402	1.00 ^{+0.15} _{-0.05}	$0.50^{+0.13}_{-0.05}$	0.10~0.35	$0.50^{+0.13}_{-0.05}$	N
0603	1.60±0.10	0.80±0.10	0.15~0.60	0.80±0.10	D
0005	2.00±0.20	1.25 ±0.20	0.20~0.75	$0.85^{+0.15}_{-0.35}$	Y
0805	2.00 ^{+0.20} -0.30	$1.25^{+0.20}_{-0.30}$	0.20~0.75	1.25 ^{+0.20} -0.30	Н
	3.20±0.20	1.60±0.20	0.25~0.75	$0.85^{+0.15}_{-0.35}$	Y
1206	3.20±0.20	1.60±0.20	0.25~0.75	1.15±0.20	О
	3.20±0.20	1.60±0.20	0.25~0.75	1.60±0.20	L

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Table 2 Type of dielectrics

Type of Dielectrics	Operating Temperature Range	Temperature Coefficient or Characteristic
NP0	-55℃~+125℃	C0G: 0±30ppm/°C
NFU	-33 C + 123 C	C0H: 0±60ppm/°C
X7R	-55°C ∼+125°C	±15%
X5R	-55℃~+85℃	±15%
Y5V	-30℃~+85℃	+22/-82%
X7S	-55°C ∼+125°C	±22%

Table 3 Rated Voltage and Rated Capacitance

a :	Rate voltage			Capacitance	•		Thickness
Size	/U _R	C0G	X7R	X5R	Y5V	X7S	code
		0.1pF~1.0nF	100pF∼68nF	100pF∼100nF	100pF∼68nF	_	В
	50V	360pF∼1.0nF	22nF∼68nF	22nF~100nF	22nF∼68nF	_	N
		_	100nF	_	_	_	С
	35V	_	100nF	100nF	-	_	В
	25V	$0.1 \mathrm{pF}{\sim}1.0 \mathrm{nF}$	22nF~100nF	10nF∼220nF	$10 \text{nF} \sim 68 \text{nF}$	_	В
0402	23 V	470pF~1.0nF	100nF	82nF∼220nF	100nF	_	N
	16V	_	56nF∼100nF	47nF∼470nF	47nF∼150nF	_	В
	10 V	_	_	120nF∼470nF	150nF~220nF	_	N
	10V			100nF∼470nF	100nF	120nF∼220nF	В
	100	_	_	100nF∼470nF	150nF~220nF	120nF∼470nF	N
	6.3V	_	_	100nF∼470nF	_	120nF∼470nF	В
	6.3V	_	_	100nF∼470nF	220nF	_	N
	50V	1pF∼2.2nF	220pF~100nF	220pF~100nF	220pF~220nF	_	D
0603	25V	2.7nF∼3.9nF	100nF∼390nF	100nF∼220nF	100nF∼220nF	_	D
	16V	_	100nF∼390nF	220nF~470nF	220nF~470nF	—	D
	50V	10pF∼4.7nF	220pF~100nF	220pF~100nF	220pF~100nF	—	Y
	300	1.0nF∼5.6nF	100nF∼820nF	100nF∼820nF	100nF∼680nF	_	Н
0805	25V	1.0nF∼10nF	—	—		—	Y
	23 V	_	220nF~820nF	220nF~820nF	220nF~680nF	_	Н
	16V	_	1.0μF	1.0µF	1.0µF	_	Н
	50V	_	100nF	_	100nF	_	Y
1206	30 V	_	100nF~1.0μF	_	100nF~1.0μF	_	L
1200	25V				<u> </u>		
	16V		1.0μF		1.0µF	_	О

Note: 1) E12 series for X7R, X5R and X7S groups, E6 series for Y5V group, E24 series for C0G group, integer nominal values such as 1.0, 2.0, 3.0pF, etc. are allowed for the specifications below 10pF.

²⁾ For products of the same size, material and capacity, the rated voltage can be covered from high to low.

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Type of Packing:

Reel Packaging (standard carrier tape disc packaging), every disc smallest package are shown in Table 4.

Table 4 Packing type

Chip Size	(0402	0603	08	305	12	206
Thickness code	B/N	B/N	D	Н	Y	L/O	Y
Disc size	7"	13"	7"	7"	7"	7"	7"
Carrier Tape type	Paper	Paper	Paper	Plastic	Paper	Plastic	Paper
QTY (Kpcs)	10	50	4	2	4	2	4

First packaging: Each multi-disc material is packed into a box.

The second packaging: the first packaged packaging box is loaded into the paper packaging box, and the remaining space in the box is filled with light auxiliary materials. The above packaging forms can also be packaged according to user needs.

- 4. Specifications and Test Methods:
- 4.1 Visual Inspection:
- 4.1.1 Requirement: no obvious defects on ceramic body and termination.
- 4.1.2 Test Method: Microscope 10×.
- 4.2 Size:
- 4.2.1 Requirement: Configuration and dimension of MLCC are shown in Figure 1 and Table 1.
- 4.2.2 Test Method: Measuring by gages which precision is not less than 0.01 mm.

4.3 Operating Environment:

C0G/C0H(NP0), X7R	Temperature: -55°C \sim +125°C; Relative humidity: \leq 95%(25°C)	Atmosphere: 86kPa ~106KPa
X5R	Temperature: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$; Relative humidity: $\leq 95\% (25^{\circ}\text{C})$	Atmosphere: 86kPa ∼106KPa
Y5V	Temperature: $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$; Relative humidity: $\leq 95\% (25^{\circ}\text{C})$	Atmosphere: 86kPa ∼106KPa
X7S	Temperature: -30°C ~+125°C; Relative humidity: ≤95% (25°C)	Atmosphere: 86kPa ~106KPa

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4.4 Electrical Parameters and Test Methods:

Table 5 Specifications and Test Methods of MLCC Electrical Parameter

No.	Item	Sŗ	pecification	Test Method	
1	Capacitance (C)	Within the	specified tolerance		
2	Tangent of Loss Angle/ (tgδ)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{llllllllllllllllllllllllllllllllllll$		
3	Insulation Resistances/ (Ri)	C0G/C0H(NP0): $C \le 10nF$, $Ri \ge 10000MΩ$ $C > 10nF$, $Ri \times C \ge 500s$ X7R、 X5R、 X7S: Y5V: $C \le 25nF$, $Ri \ge 4000MΩ$ $C \ge 25nF$, $Ri \times C \ge 100s$ $C \ge 25nF$, $Ri \times C \ge 100s$		Temperature: 18~28°C; Humidity: ≤RH 80%; Apply rated voltage within 60 ±5S	
4	Withstanding voltage (WV)	No breakdown	or flashover during test	C0G/C0H(NP0): 3×U _R X7R \ X5R \ Y5V \ X7S: 2.5×U _R t=1 minute Charge/discharge current not exceeds 50mA.	

Note: Capacitance test instructions of Class 2 ceramic capacitors

When the capacitor initial capacitance is lower than its tolerance value, the test sample need to be heated for 60 ± 5 minutes at 150 °C ± 10 °C. Recover it, let sit at room temperature for 24 ± 2 hrs, and then test the capacitance.

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4.5 Environment Test Specifications and Methods:

Without specific note, the "test method" in Table 6 is based on GB/T 21041/21042 IDT IEC60384-21/22 Table 6 Environment Test Specifications and Methods

No.	Item	Specification	Test Method
	Temperature	NP0(C0G/C0H): $\alpha_c \le \pm 30 \text{ppm/}^{\circ} \text{C } (125^{\circ} \text{C});$ $-72 \le \alpha_c \le \pm 30 \text{ppm/}^{\circ} \text{C } (-55^{\circ} \text{C});$	Preliminary Drying for 16~24hrs C0G/C0H(NP0),Special preconditioning for 1hr at 150°C followed by 24hrs (X7R、X5R、Y5V),The ranges of capacitance change compared with the
1	Coefficient of Capacitance	$X7R,X5R: \Delta C/C \le \pm 15\%$	temperature ranges $(\theta 1, 25^{\circ}\text{C}, \theta 2)$ shall be within the specified ranges. X5R: $\theta 1=-55^{\circ}\text{C}$, $\theta 2=85^{\circ}\text{C}$
1	(α _c) or Temperature	X7S: ΔC/C ≤±22%	X7R \ X7S: $\theta 1 = -33^{\circ}$ C, $\theta 2 = 83^{\circ}$ C X7R \ X7S: $\theta 1 = -55^{\circ}$ C, $\theta 2 = 125^{\circ}$ C Y5V: $\theta 1 = -30^{\circ}$ C, $\theta 2 = 85^{\circ}$ C
	Characteristics	Y5V: -82%≤∆C/C≤+22%	Test voltage: 0402 X7R 27nF≤C≤100nF: 0.5±0.1Vrms X7S: 0.5±0.2Vrms others: 1.0±0.2Vrms
2	Resistance to Soldering Heat	Visual: No visible damage and terminations uncovered shall be less than 25%. Capacitance Change: $NP0(C0G/C0H): \ \Delta C/C \leq \pm 2.5\% \text{ or } \pm 0.25 \text{pF}, $ whichever is larger; $X7R, X5R: \Delta C/C \leq \pm 7.5\%; $ $X7S: \ \Delta C/C \leq \pm 15\% $ $Y5V: \ \Delta C/C \leq \pm 20\% $ $tg\delta \text{ and Ri: meet the initial specification in Table 5.}$	Special preconditioning for 1hr at 150 °C followed by 24±1hrs;Preheat the capacitor at 110 to 150 °C for 30-60s. Immerse the capacitor in an eutectic solder solution at 260±5 °C for 10±1 seconds. The depth of immersion is 10mm.Recover it, let sit at room temperature for 6~24hrs [C0G/C0H(NP0)] or 24±2hrs (X7R \ X5R \ Y5V \ X7S), then observe appearance and measure electrical characteristics.
3	Solderability	75% min. coverage of both terminal electrodes is soldered evenly and continuously.	Immerse the test capacitor into a methanol solution containing rosin for 3 to 5 seconds, preheat it at 80 to 180° C for 30s to 60s and immerse it into molten solder of $235\pm5^{\circ}$ C for 2 ± 0.2 seconds. The depth of immersion is 10mm.

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	•	<u> </u>	
4	Bond Strength of Termination	Visual: No visible damage. Capacitance Change: NP0(C0G/C0H): ΔC/C ≤ ±5% or ±0.5pF, whichever is larger; X7R, X5R X7S: ΔC/C≤±12.5%; Y5V: ΔC/C ≤ ±30%	Solder the capacitor to the test jig (glass epoxy boards) shown in Fig. a. Apply a force in the direction shown in Fig. b. Bending 2mm at a speed of 1mm/sec and hold for 5±1secs, then measure the capacitance. Description
5	Adhesion	Visual: No visible damage.	When Soldering the capacitor on a P. C. board, apply a pushing force of 5N for 10±1secs. Capacitor P.C. Board

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		Visual: No visible damage.	
6	Vibration	Capacitance Change: NP0(C0G/C0H): Δ C/C \leq \pm 2.5% or \pm 0.25pF, whichever is larger; X7R, X5R: Δ C/C \leq \pm 7.5%; X7S: Δ C/C \leq \pm 15%; Y5V: Δ C/C \leq \pm 20%	Sample shall be mounted on a suitable substrate. Amplitude: 1.5mm Frequencies: 10 Hz~55 Hz and Harmonic vibration of uniform changes, 1 minutes sweep cycle. Repeat this for 2hrs each in 3 perpendicular directions X, Y, Z, total 6hrs. (Related STD: IEC 68-2-6 test Fc)
		tgδ and Ri: meet the initial specification in Table 5.	
	Rapid change of temperature	Visual: No visible damage.	
7		Capacitance Change: NP0(C0G/C0H): Δ C/C \leq \pm 2.5% or \pm 0.25pF, whichever is larger; X7R, X5R: Δ C/C \leq \pm 15%; X7S: Δ C/C \leq \pm 20%; Y5V: Δ C/C \leq \pm 20%	Special preconditioning for 1hr at 150 °C followed by 24hrs. Fix the capacitor to the supporting jig. Expose the capacitors in the condition step 1 through 4 and perform 5 cycles. Step temperature (°C) time 1 θ_A 30 min 2 25 2~5 min 3 θ_B 30 min 4 25 2~5 min NP0(C0G/C0H), X7R,X7S: θ_A =-55 °C, θ_B =125 °C; X5R: θ_A =-55 °C, θ_B =85 °C
		$tg\delta$ and Ri: meet the initial specification in Table 5.	Y5V: θA=-30°C,θB=85°C Recover it, let sit at room temperature for 6~24hrs [C0G/C0H(NP0)] or 24±2hrs (X7R, X5R,Y5V,X7S), then observe appearance and measure electrical characteristics.

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		Visual: No visible damage.	
		Capacitance Change: NP0(C0G/C0H): Δ C/C \leq ±5% or ±0.5pF, whichever is larger; X7R, X5R: Δ C/C \leq ±12.5%; X7S: Δ C/C \leq ±30%; Y5V: Δ C/C \leq ±30%	
8	Damp Heat (Steady State)	$\begin{array}{c} tg\delta: \\ NP0(C0G/C0H): \\ tg\delta \!\! \leq \!\! 20 \! \times \! 10^{-4} \; (C \!\! \geq \!\! 30 pF) \; or \\ tg\delta \!\! \leq \!\! 2 \! \times \! (90/C \!\! + \!\! 7) \! \times \! 10^{-4} (C \!\! < \!\! 30 pF); \\ X7R: tg\delta \!\! \leq \!\! 2 \! \times \! (90/C \!\! + \!\! 7) \! \times \! 10^{-4} (C \!\! < \!\! 30 pF); \\ X7S: tg\delta \!\! \leq \!\! 2 \! \times \! the \; initial \; specification \; in \; Table5; \\ X5R: tg\delta \!\! \leq \!\! 2 \! \times \! the \; initial \; specification \; in \; Table5; \\ X5R: tg\delta \!\! \leq \!\! 1200 \! \times \! 10^{-4} \\ Y5V: U_R \!\! \geq \!\! 25V \qquad tg\delta \!\! \leq \!\! 950 \! \times \! 10^{-4} \\ U_R \!\! = \!\! 16V \qquad tg\delta \!\! \leq \!\! 1300 \! \times \! 10^{-4} \\ U_R \!\! < \!\! 16V \qquad tg\delta \!\! \leq \!\! 1600 \! \times \! 10^{-4}. \end{array}$	Special preconditioning for 1hr at 150°C followed by 24hr Test Temperature: 60°C ±2°C Humidity: RH 90~95% Duration:500hrs Recover it, let sit at room temperature for 6~24hrs [C0G/C0H(NP0)] or 24±2hrs(X7R,X5R,Y5V,X7S), then observe appearance and measure electrical characteristics.
		Ri: NP0(C0G/C0H): Ri \geq 2500M Ω or Ri \times C \geq 50s, which is smaller; X7R,X5R,Y5V,X7S: Ri \geq 1000M Ω or Ri \times C \geq 50s (U _R \geq 25V), which is smaller; Ri \geq 1000M Ω or Ri \times C \geq 10s (U _R \leq 16V), which is smaller.	

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			16 (61	uo.	caments		
		Visual: No visible damag	e.				
9	Damp heat with load		oF) or 0^{-4} (C<30pF); cification in Table5; 0^{-4} ; 0^{-4}	·	Remove and temperature. Test Tempera Humidity: RI Test Voltage: Duration: 500 Charge/disch Recover it, 16~24hrs (X7R,X5R appearance characteristic	Perform initial ature: $60\pm2^{\circ}\text{C}$; H $90\sim95\%$; $1.0\times\text{U}_{R}$; Ohrs; arge current no let sit at room [COG/COH(NPC A,Y5V,X7S]) and measures. (X5R≥ ang for 1hr at	t exceeds 50mA. temperature for))] or 24±2hrs then observe sure electrical

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		Visual: No visible damage.	
		Capacitance Change:	
		NP0(C0G/C0H): Δ C/C \leq ±3% or ±0.3pF, which is	
		larger;	
		X7R, X5R: ΔC/C≤±15%;	
		X7S: ΔC/C≤±30%;	Special preconditioning for 1hr at 150 ℃
		Y5V: ΔC/C≤±30%.	followed by 24hrs
		Tgδ:	Test Temperature:
		NP0(C0G/C0H):	NP0(C0G/C0H)/X7R/X7S: 125°C;
		$tg\delta \le 20 \times 10^{-4} (C \ge 30 pF) \text{ or}$	`
		$tg\delta \le 2 \times (90/C+7) \times 10^{-4} (C < 30pF);$	X5R/Y5V: 85°C;
		X7R:tgδ≤700×10 ⁻⁴ ;	Duration: 1000hrs;
10	Endurance	X7S:tgδ≤2×the initial specification in Table5;	Test Voltage: 1.5×U _R
10	Endurance	X/S .tg6 $\le 2 \times$ the initial specification in Table5, $X5R$: tg6 $\le 1200 \times 10^{-4}$;	Recover it, let sit at room temperature for
		,	6~24hrs [C0G/C0H(NP0)] or 24±2hrs
		Y5V:U _R ≥25V $tg\delta$ ≤950×10 ⁻⁴	(X7R,X5R,Y5V,X7S) , then observe
		$U_{R} = 16V \qquad tg\delta \leq 1300 \times 10^{-4}$	appearance and measure electrical
		$U_R < 16V tg\delta \le 1600 \times 10^{-4}$.	characteristics. (X5R≥100nF Special
		Ri:	preconditioning for 1hr at 150°C followed
		NP0(C0G/C0H): Ri \geq 1000MΩ or Ri \times C \geq 50s,which	by 24±4hrs).
		is smaller;	
		X7R,X5R,Y5V,X7S:	
		$Ri \ge 1000M\Omega$ or $Ri \times C \ge 50s$ ($U_R \ge 25V$), which is	
		smaller;	
		$Ri \ge 1000M\Omega$ or $Ri \times C \ge 10s$ ($U_R \le 16V$), which is	
		smaller.	
		Smanor.	

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- 5. Packaging, Shipment and storage:
- 5.1 Packing:
- 5.1.1 Packing type:

Reel Packaging (standard carrier tape disc packaging), single disc smallest package are shown in Table 4.

5.1.2 Carrier Tape size:

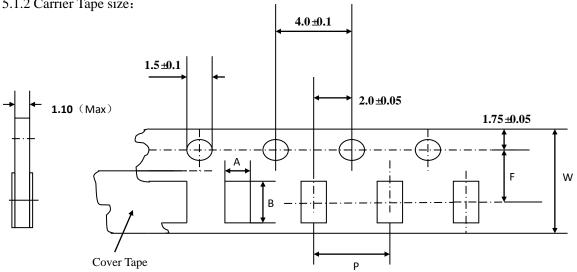


Figure 2 Carrier

Table 7 Carrier size

	Size of product					
Mark	0402	0603	0805	1206		
	Size (Unit: mm)					
A (Width of the square hole)	0.70 ± 0.10	1.00±0.20	1.60±0.20	2.00±0.20		
B (Length of the square hole)	1.20±0.10	1.80±0.20	2.40±0.20	3.60±0.20		
F (Center distance between positioning hole and square hole)	3.50±0.05	3.50±0.05	3.50±0.05	3.50±0.05		
P (Square hole spacing)	2.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10		
W (Width of carrier)	8.00±0.20	8.00±0.20	8.00±0.20	8.00±0.20		

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5.1.3 Disc size:

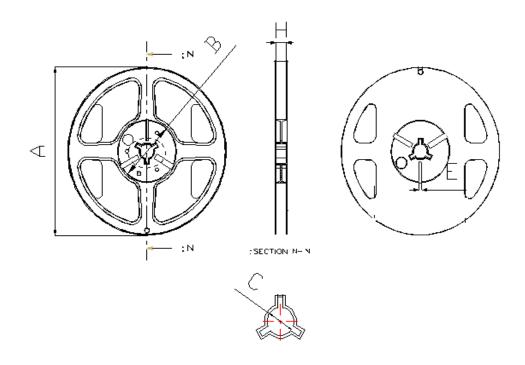
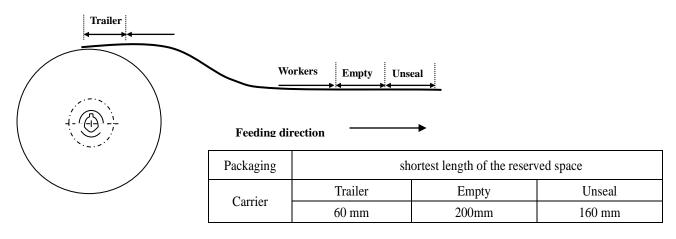


Figure 3 Disc

Table 8 Disc size

Disc Size	A/mm	B/mm	C/mm	E/mm	H/mm
7"	Ф178±2.0	Ф60±2.0	Ф13±1.0	4±1.0	9.5±1.0
13"	Ф330±2.0	Ф100±2.0	Ф13±1.0	3±1.0	10±1.0

5.1.4 Carrier specifications:



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File name	File name Multi-layer Ceramic Chip Capacitor			File type		Product Specification	
Issued No.	SGVX-CCF202011	Confidentiality level	External public documents		С	Date	2020-11-03

5.1.5 Performance of Carrier Taping:

5.1.5.1 Strength of Carrier Tape and Top Cover Tape:

a. Carrier Tape

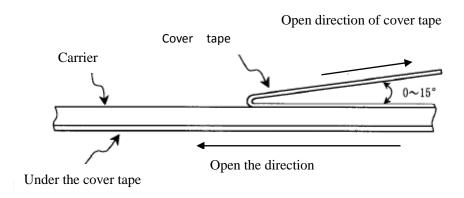
When a tensile force 1.02kgf is applied in the direction to unreel the tape, the tape shall withstand this force.

b. Top cover Tape

When a tensile force 1.02kgf is applied to the tape, the tape shall withstand this force.

5.1.5.2 Peeling Strength of Top Cover Tape:

Unless otherwise specified, the peeling strength of top cover tape shall be within 10.2 to 71.4 gf when the top cover tape is pulled at a speed of 300mm/min with the angle of 0 to 15 (see the following figure).



5.2 Shipment:

It must not be got rain, snow, and must avoid erosion of acid and alkali during the course of shipment.

5.3 Storage:

Period of Store:

12 months, otherwise, its solderability must be inspected again.

Condition of Store:

Temperature: Below 35° C Humidity: Below RH70%.