

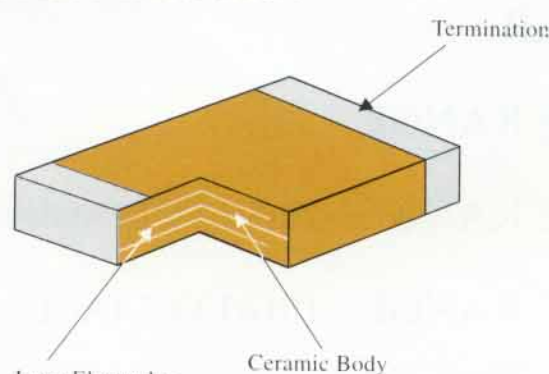
DESCRIPTION:

The Multilayer Ceramic Chip Capacitors supplied in bulk or taped & reel package are ideally suitable for thick-film Hybrid circuits and automatic surface mounting on printed circuit boards.

Depending on customer's requirement we supply two type of material for terminations:

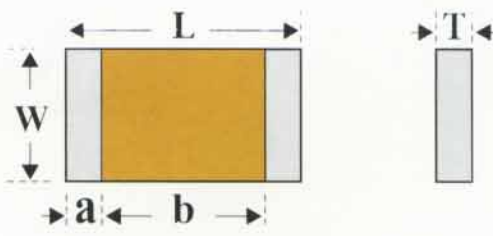
1. palladium-silver termination.
2. nichel-barrier termination.

1. TERMINAL ELECTRODE CONSTRUCTION



These highly reliable chip type multilayer ceramic capacitors, which have been currently provided with silver and palladium internal and external electrodes, are available in six types: 0805, 1206, 1210, 1808, 1812 and 2220 that are suitable for high density automatic mounting operations.

2. DIMENSION



EIA/IEC Eielectric Code	NP0 (C0G) · X7R · Y5V					
Size	0805	1206	1210	1808	1812	2220
Length (L) mm	2.00 ± 0.15	3.20 ± 0.20	3.20 ± 0.30	4.60 ± 0.30	4.60 ± 0.30	5.70 ± 0.40
Width (W) mm	1.25 ± 0.15	1.60 ± 0.20	2.50 ± 0.20	2.00 ± 0.20	3.20 ± 0.30	5.00 ± 0.40
Thickness (T) mm max	1.25	1.80	2.00	2.00	2.50	2.50
a mm min	0.20	0.25	0.30	0.30	0.30	0.30
b mm min	1.00	1.60	1.60	2.60	2.60	4.40

CAPACITANCE RANGE OF HIGH VOLTAGE

SIZE	0805		1206				1210			
	250	500	250	500	1000	2000	250	500	1000	2000
1R0 to 9R0										
100 TO 470										
680										
101										
121										
151										
181										
221										
271										
331										
391										
471										
561										
681										
821										
102										
222										
472										
103										
223										
473										
104										
224										
334										
474										

NPO X7R

CAPACITANCE RANGE OF HIGH VOLTAGE

SIZE	1808					1812					2220				
	250	500	1000	2000	3000	250	500	1000	2000	3000	250	500	1000	2000	3000
1R0 to 9R0															
100 to 470															
680															
101															
121															
151															
181															
221															
271															
331															
391															
471															
561															
681															
821															
102															
222															
472															
103															
223															
473															
104															
224															
334															
474															

NPO X7R Y5V

PACKING

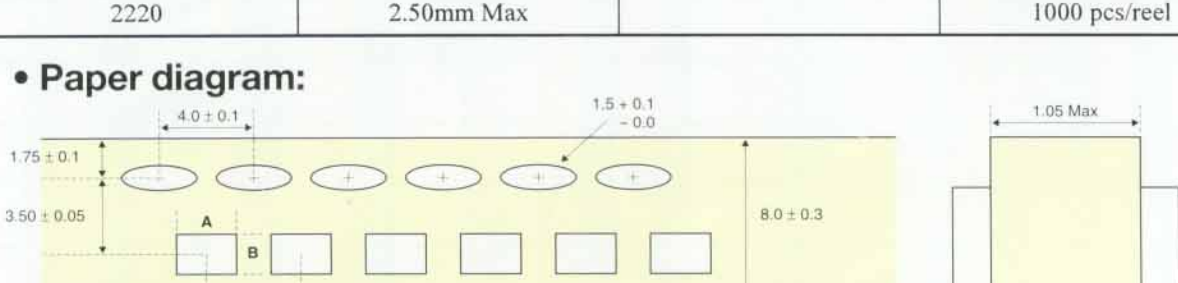
1. Bulk Packing:

Stadard packaging 10K pcs / pack, others according to customer's request.

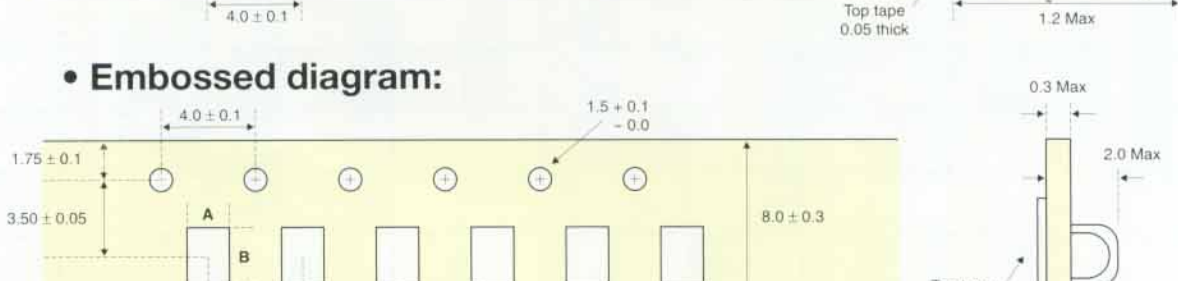
2. Tape packing:

Size Code	Thickness	Paper Taping	Embossed Taping
0805	0.65 ± 0.1mm 0.85 ± 0.1mm 1.25 ± 0.1mm	4000 (10000) pcs/reel 4000 (10000) pcs/reel 3000 (10000) pcs/reel	3000 pcs/reel
1206	0.65 ± 0.1mm 0.85 ± 0.1mm 1.05 ± 0.15mm 1.80mm Max	4000 (10000) pcs/reel 4000 (10000) pcs/reel	3000 pcs/reel 3000 pcs/reel
1210	1.05 ± 0.15mm 1.25 ± 0.15mm 2.00mm Max		3000 pcs/reel 3000 pcs/reel 2.000 (3000) pcs/reel
1808	1.25 ± 0.15mm 2.00mm Max		3000 pcs/reel 2000 pcs/reel
1812	2.50mm Max		1000 pcs/reel
2220	2.50mm Max		1000 pcs/reel

• Paper diagram:



• Embossed diagram:



SIZE	2012	3216	3225	4520	4532	5750
	0805	1206	1210	1808	1812	2220
A	1.50 ± 0.2	1.90 ± 0.2	2.90 ± 0.2	2.50 ± 0.3	3.60 ± 0.3	5.40 ± 0.3
B	2.30 ± 0.2	3.50 ± 0.2	3.60 ± 0.2	4.90 ± 0.3	4.90 ± 0.3	6.10 ± 0.3

3. Cover Tape:

Strength: Greater than 2 Kg.

Reel-off force: 30 + 20g.

The cover tape should not touch the top of the chips.