

# Data Sheet

Customer: \_\_\_\_\_

Product: Large Size Multilayer Ceramic Chip Capacitors \_\_\_\_\_

Size : 2020/3035/3333/3530/3640/3940/4045/4238/4252/4540/4545/5550/5780  
5868/6560/7680/7875/7880/8550/8840//13060 \_\_\_\_\_

Issued Date: 22-Jan.-2024 \_\_\_\_\_

Edition: Ver. 3 \_\_\_\_\_

## Record of change

Date	Ver.	Description	Page
01-Feb.-2023	2	Revised Dimension	2
22-Jan.-2024	3	Del. 3530 X7R 1000pF/7KV & 4540 X7R 1800pF/7KV	5

## HITANO ENTERPRISE CORP.

7F-7, No. 3, Wu Chuan 1<sup>st</sup> Road, New Taipei Industrial Park,  
New Taipei City, TAIWAN, R.O.C.

Tel: +886 2 2299 1331 (Rep.)

Fax: +886 2 2298 2466, 2298 2969

Prepared by	Checked by	Approved by	Accepted by (customer)
22-Jan.-2024	22-Jan.-2024	22-Jan.-2024	
Hwa Wu	Andy Hsu	Arthur Su	

# Large Size Multilayer Ceramic Chip Capacitors XL Series

## ■ INTRODUCTION

HITANO XL series are manufactured by using environmental friendly material with special interior design to realize wide capacitance and high voltage performance.

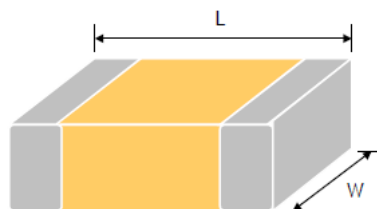
## ■ FEATURES

- A. Special interior design offers wide voltage range from 50V to 10KVdc
- B. A wide selection of sizes is available (2020 to 13060).
- C. Wide capacitances from 1000pF to 47uF
- D. Low resistance and high precision.
- E. High reliability and stability.
- F. RoHS & HALOGEN compliant.

## ■ APPLICATIONS

- A. High power SMPS.
- B. Industrial application.
- C. Isolations.
- D. Radioactive detector.
- E. DC to DC converter.
- F. Medical equipment.

## ■ DIMENSION : (Unit mm)



	2020	3035	3333	3530	3640	3940	4045	4238	4252	4540	4545
L	5.00±0.4	7.60±0.5	8.40±0.5	8.90±0.5	9.10±0.5	9.90±0.5	10.20±0.5	10.70±0.5	10.70±0.5	11.40±0.5	11.40±0.5
W	5.00±0.4	8.90±0.5	8.40±0.5	7.60±0.5	10.20±0.5	10.20±0.5	11.40±0.5	9.70±0.5	13.20±0.5	10.20±0.5	11.40±0.5

	5550	5780	5868	6560	7680	7875	7880	8550	8840	13060
L	14.00±0.6	14.50±0.6	14.70±0.6	16.50±0.7	19.30±0.7	19.80±0.7	19.80±0.7	21.60±0.8	22.40±0.8	33.00±0.9
W	12.70±0.6	20.30±0.7	17.30±0.7	15.20±0.6	20.30±0.8	19.10±0.7	20.30±0.7	12.70±0.6	10.20±0.5	15.20±0.6

**■ ELECTRICAL DATA**

<b>Dielectric</b>	NPO(C0G) / X7R	
<b>Rated voltage(WV)</b>	50Vdc ~ 10KVdc	
<b>Capacitance range</b>	100pF ~ 47uF	
<b>Capacitance tolerance</b>	J (±5%), K (±10%), M (±20%)	
<b>Dissipation factor (Tanδ)</b>	≤ 2.5%	
<b>Insulation resistance</b>	≥ 100GΩ or R*C ≥ 1000Ω-F whichever is smaller	
<b>Dielectric Withstand Voltage</b>	Rated voltage (U <sub>R</sub> ) < 500V	2.0 times of U <sub>R</sub>
	500V ≤ Rated voltage (U <sub>R</sub> ) < 1KV	1.5 times of U <sub>R</sub>
	1KV ≤ Rated voltage (U <sub>R</sub> ) < 5KV	1.2 times of U <sub>R</sub>
	5KV ≤ Rated voltage (U <sub>R</sub> ) < 10KV	1.0 times of U <sub>R</sub>
<b>Operating temperature</b>	-55°C ~ +125°C	
<b>Temperature coefficient</b>	± 15%	
<b>Termination</b>	Ag/Ni/Sn(Lead free)	

## PRODUCT MAP SIZE 2020 to 13060

R.V. T.C. Size(In.)	50V		100V		200V/250V		500V/630V		1000V	
	NPO/ COG	X7R	NPO/ COG	X7R	NPO/ COG	X7R	NPO/ COG	X7R	NPO/ COG	X7R
2020	393	565	153	475	822	225	472	334	332	683
3035	683	106	473	825	273	275	822	135	472	124
3333	823	825	563	475	333	335	822	125	562	124
3530	104	825	683	475	393	475	103	125	682	154
3640	124	825	823	565	473	475	103	225	822	154
3940	154	825	104	655	563	565	123	225	103	184
4045	154	106	104	685	563	565	123	225	123	184
4238	184	106	124	685	683	565	223	335	223	224
4252	184	106	124	685	683	685	223	335	333	224
4540	184	126	124	685	683	685	273	335	473	274
4545	184	126	124	685	683	685	273	475	563	274
5550	224	156	154	825	823	825	124	565	823	394
5780	274	156	184	106	104	106	154	565	823	394
5868	274	156	184	106	104	106	154	565	823	474
6560	274	186	184	126	104	106	184	685	104	474
7680	334	186	224	126	124	126	224	685	104	564
7875	394	186	274	156	154	126	334	685	124	564
7880	474	186	334	156	184	126	394	825	224	684
8550	564	186	394	186	224	156	474	825	---	684
8840	564	226	394	186	224	156	474	825	---	824
13060	824	476	684	276	394	226	824	106	---	125

R.V. T.C. Size(In.)	2000V		3000V		4000V		5000V		6000V	
	NPO/ COG	X7R	NPO/ COG	X7R	NPO/ COG	X7R	NPO/ COG	X7R	NPO/ COG	X7R
2020	152	682	102	222	471	102	271	821	101	681
3035	222	103	152	332	681	152	561	122	181	102
3333	472	123	152	392	821	182	561	122	181	102
3530	562	123	222	392	102	182	681	152	221	122
3640	472	153	222	472	122	222	681	152	221	122
3940	682	153	332	472	222	222	821	182	271	152
4045	822	183	472	682	272	272	821	182	271	152
4238	103	183	472	682	332	272	102	222	331	182
4252	223	223	562	822	472	332	102	222	331	182
4540	333	223	562	822	562	332	222	272	471	222
4545	333	273	682	103	682	392	222	272	471	222
5550	333	393	822	123	123	472	332	392	681	332
5780	473	393	103	153	153	562	332	392	681	332
5868	473	473	103	153	153	562	472	472	821	392
6560	473	473	223	183	183	682	472	472	821	392
7680	563	563	223	183	223	682	562	562	102	472
7875	823	563	333	223	333	822	682	562	122	472
7880	124	683	473	273	473	822	822	682	152	562
8550	---	683	---	273	---	103	---	682	---	562
8840	---	823	---	333	---	103	---	822	---	682
13060	---	124	---	473	---	153	---	123	---	103

R.V. T.C. Size(In.)	7000V		8000V		10000V	
	NPO/ COG	X7R	NPO/ COG	X7R	NPO/ COG	X7R
3530	181	---	151	821	121	---
3640	181	102	151	821	121	---
3940	221	122	181	102	151	---
4045	221	122	181	102	151	---
4238	271	152	221	122	181	---
4252	271	152	221	122	181	---
4540	331	---	271	152	221	---
4545	331	182	271	152	221	---
5550	561	272	471	222	331	---
5780	561	272	471	222	331	---
5868	681	332	561	272	471	---
6560	681	332	561	272	471	---
7680	821	392	681	332	561	---
7875	821	392	681	332	561	---
7880	102	472	821	392	681	182
8550	---	472	---	392	---	182
8840	---	562	---	472	---	222
13060		822		682		332

\*Two significant digits followed by no. of zeros. And R is in place of decimal point.

Example: **100=10x100 =10pF**    **106=10x106 =10μF**

\*Above road map for selection reference only. Please reconfirm with us availability of the item you required

\*If you do not find the capacitor you need please make contact with us. We can customize any dimension and capacitance per your requirement for your application.