

MULTILAYER CERAMIC CHIP CAPACITORS

CLL Series Commercial Grade Ultra Low Inductance

Type:

CLLC1A [EIA CC0603] CLLE1A [EIA CC0805] CLLG1A [EIA CC1206]

Issue date: Dec 2014



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REMINDERS

Please read before using this product

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(Example)

Catalog Issued date	Catalog Number	Item Description (On Delivery Label)
Prior to January 2013	C1608C0G1E103J	C1608C0G1E103JT000N
January 2013 and Later	C1608C0G1E103J080AA	C1608C0G1E103JT000N



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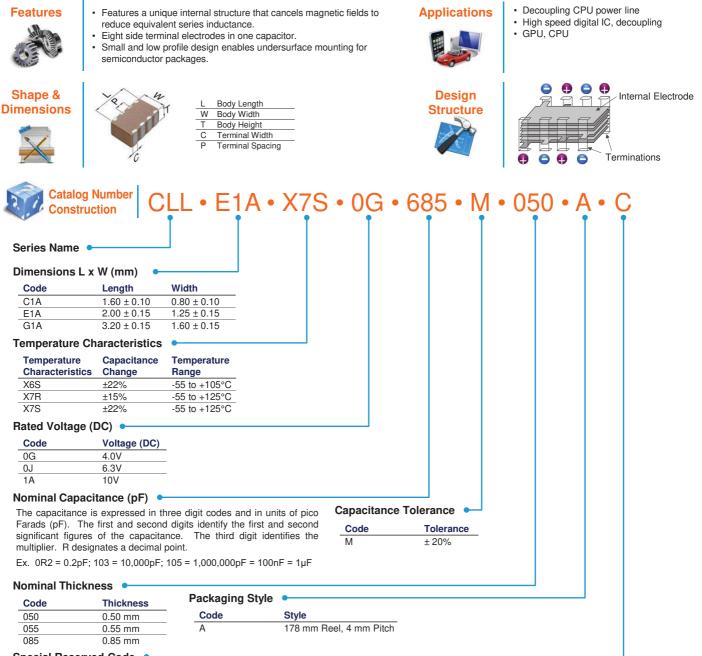


CLL Series

Lead RoHS COMPLIANT Ecological

Ultra Low Inductance

Type: CLLC1A [EIA CC0603], CLLE1A [EIA CC0805], CLLG1A [EIA CC1206]



Special Reserved Code

Code Description

C TDK Internal Code

⊗TDK

MULTILAYER CERAMIC CHIP CAPACITORS



CLLC1A(1608) [EIA CC0603]

Capacitance Range Chart

. Temperature Characteristics: X6S (± 22%), X7R (±15%), X7S (± 22%) Rated Voltage: 4V (0G)

			X6S	X7R	X7S
Capacitance (pF)	Code	Tolerance	0G	0G	0G
			(4V)	(4V)	(4V)
47,000	473	M: ± 20%			
100,000	104				
330,000	334				
470,000	474				
680,000	684				
1,000,000	105				
2,200,000	225				
4,700,000	475				



Capacitance Range Chart

CLLE1A(2012) [EIA CC0805]

CLLG1A(3216) [EIA CC1206]

Capacitance Range Chart

Temperature Characteristics: X7R (±15%), X7S (±22%) Rated Voltage: 10V (1A), 6.3V (0J), 4V (0G)

0		X7R			X7S			
Capacitance (pF)	Code	Tolerance	1A	OJ	0G	1A	OJ	0G
(0.)			(10V)	(6.3V)	(4V)	(10V)	(6.3V)	(4V)
47,000	473	M: ± 20%						
100,000	104							
150,000	154							
220,000	224							
330,000	334							
470,000	474							
680,000	684							
1,000,000	105							
1,500,000	155							
2,200,000	225							
4,700,000	475							
6,800,000	685							



Capacitance Range Chart

Temperature Characteristics: X7R (±15%), Rated Voltage: 10V (1A), 6.3V (0J)

	Oomooitemaa			X7R		
	Capacitance (pF)	Code	Tolerance	1A (10V)	0J (6.3V)	
	1,000,000	105	M: ± 20%			
[2,200,000	225				

Standard Thickness



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Class 2 (Temperature Stable)

Temperature Characteristics: X6S (-55 to +105°C, ±22%)								
Capacitanco	Size	Thickness	Capacitance	Catalog Number				
Capacitance	3120	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4.0V		
4.7 µF	1608	0.50 ± 0.05	± 20%			CLLC1AX6S0G475M050AC		
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Class 2 (Temperature Stable)

Temperature Characteristics: X7R (-55 to +125°C, ±15%)

Conseitence	Size	Thickness	Capacitance	Catalog Number		
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4.0V
47 nF	2012	0.50 ± 0.05	± 20%			CLLE1AX7R0G473M050AC
	1608	0.50 ± 0.05	± 20%			CLLC1AX7R0G104M050AC
100 nF	2012	0.50 +0.05/-0.10	± 20%	CLLE1AX7R1A104M050AC		
	2012	0.50 ± 0.05	± 20%			CLLE1AX7R0G104M050AC
150 nF	2012	0.50 +0.05/-0.10	± 20%	CLLE1AX7R1A154M050AC		
220 nF	2012	0.50 +0.05/-0.10	± 20%	CLLE1AX7R1A224M050AC		
330 nF	2012	0.50 +0.05/-0.10	± 20%	CLLE1AX7R1A334M050AC		
470 nF	2012	0.50 +0.05/-0.10	± 20%		CLLE1AX7R0J474M050AC	
680 nF	2012	0.50 +0.05/-0.10	± 20%		CLLE1AX7R0J684M050AC	
1	2012	0.85 ± 0.10	± 20%		CLLE1AX7R0J105M085AC	CLLE1AX7R0G105M085AC
1 µF	3216	0.85 ± 0.10	± 20%	CLLG1AX7R1A105M085AC		
1.5 μF	2012	0.85 ± 0.10	± 20%		CLLE1AX7R0J155M085AC	
2.2 µF	3216	0.85 ± 0.10	± 20%		CLLG1AX7R0J225M085AC	

Class 2 (Temperature Stable)

Temperature Characteristics: X7S (-55 to +125°C, ±22%)

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Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4.0V
47 nF	1608	0.50 ± 0.05	± 20%			CLLC1AX7S0G473M050AC
	2012	0.50 ± 0.05	± 20%			CLLE1AX7S0G473M050AC
100 nF	1608	0.50 ± 0.05	± 20%			CLLC1AX7S0G104M050AC
TUU NF	2012	0.50 ± 0.05	± 20%			CLLE1AX7S0G104M050AC
150 nF	2012	0.50 ± 0.05	± 20%	CLLE1AX7S1A154M050AC		
220 nF	2012	0.50 ± 0.05	± 20%	CLLE1AX7S1A224M050AC		
330 nF	1608	0.50 +0.05/-0.10	± 20%			CLLC1AX7S0G334M050AC
330 NF	2012	0.50 ± 0.05	± 20%	CLLE1AX7S1A334M050AC		
470 mF	1608	0.50 +0.05/-0.10	± 20%			CLLC1AX7S0G474M050AC
470 nF	2012	0.50 ± 0.05	± 20%		CLLE1AX7S0J474M050AC	
680 nF	1608	0.50 +0.05/-0.10	± 20%			CLLC1AX7S0G684M050AC
680 NF	2012	0.50 ± 0.05	± 20%		CLLE1AX7S0J684M050AC	
1 µF	1608	0.50 +0.05/-0.10	± 20%			CLLC1AX7S0G105M050AC
ιμг	2012	0.50 +0.05/-0.10	± 20%			CLLE1AX7S0G105M050AC
1.5 µF	2012	0.50 +0.05/-0.10	± 20%			CLLE1AX7S0G155M050AC
1.5 µF	2012	0.85 ± 0.10	± 20%		CLLE1AX7S0J155M085AC	
	1608	0.50 ± 0.05	± 20%			CLLC1AX7S0G225M050AC
2.2 µF	0010	0.50 +0.05/-0.10	± 20%			CLLE1AX7S0G225M050AC
	2012	0.85 ± 0.10	± 20%			CLLE1AX7S0G225M085AC
4.7 µF	2012	0.50 ± 0.05	± 20%			CLLE1AX7S0G475M050AC
4.7 μr	2012	0.85 ± 0.10	± 20%			CLLE1AX7S0G475M085AC
6.8 µF	2012	0.50 ± 0.05	± 20%			CLLE1AX7S0G685M050AC