

CeramicCapacitor LLA Series



8 Terminals Low ESL Chip Multilayer Ceramic Capacitors for Consumer Electronics & Industrial Equipment

8-Terminal Type Low ESL Capacitor Ideal for Power Supply Decoupling of High-speed Operation IC

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Specific Applications

For the detail of specific applications, please refer to the following links or specification sheets.

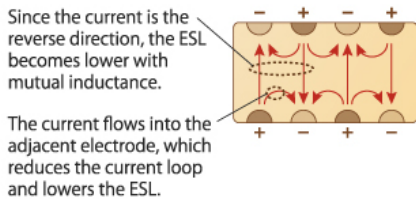
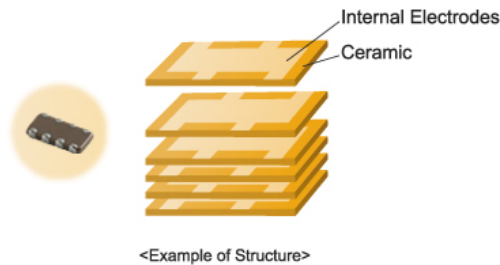
- > [Specific Applications Details](#)
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Consumer equipment	Industrial equipment	Automotive infotainment/comfort equipment	Automotive powertrain/safety equipment	Medical equipment [GHTF A/B/C] except for implant equipment	Implanted medical equipment medical equipment [GHTF D]
✓	✓	✓		✓	

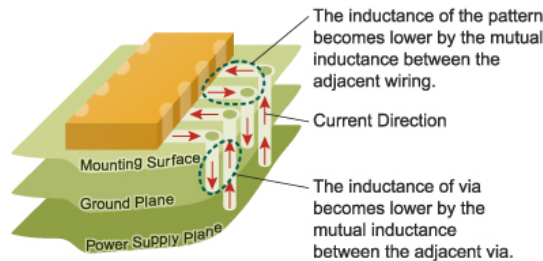
Features

1. Ultra-low ESL

Since the equivalent series inductance (ESL) is very low with excellent high frequency characteristics due to the design structure, this capacitor is ideal for power supply decoupling of high-speed operation IC.



Effectiveness of Cancelling Out Inductance by Mutual Inductance



Effectiveness of Suppressing Inductance when Mounting a Multi-terminal Capacitor

The inductance for the boards also becomes lower, not only the capacitor.

2. A maximum operating temperature up to 125 oC

This product is applicable to high temperatures (X7* characteristics); however, Murata also offers numerous thin type products, which are ideal as decoupling capacitors on IC package.

Specifications

Size (mm)	1.6x0.8mm - 2.0x1.25mm
Rated Voltage	4Vdc
Capacitance	0.10 μ F - 4.7 μ F
Main applications	Application processor/CPU/GPU

Lineup

[Go to the part number list](#)[Download CSV](#)

You can see the search result of the item you click on the capacitance chart.

High dielectric constant type

AvailableUnder development[Use narrowed products' rows](#)

Maximum operating temperature	LxW	Rated Voltage	Capacitance												Capacitance range		
			pF					μ F									
			0.1	1	10	100	1000	0.01	0.1	1	10	100	1000				
125°C	1.6x0.8mm	4Vdc															0.10 μ F - 2.2 μ F
	2.0x1.25mm	4Vdc															4.7 μ F

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Ceramic Capacitor

- > Polymer Aluminum Electrolytic Capacitors
- > Single-Layer Microchip Capacitors
- > Thin Film Circuit Substrates (RUSUB)
- > Variable Capacitors
- > Silicon Capacitors
- > High Temperature Film Capacitor for Automotive

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SimSurfing

The software 'SimSurfing' simulates the characteristics of Murata products.

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