

Murata technologies

Shaping the future of electronics

Murata has built an integrated system of production from raw materials to finished products, and we are continuously developing and accruing our fundamental technology base, such as materials technology, front-end process technology, product design technology, back-end process technology and analytical technology. We also aim at creating new markets and innovations by actively collaborating with outside partners and by developing core technologies and products that anticipate the future.



Where innovation begins

Perfected techniques

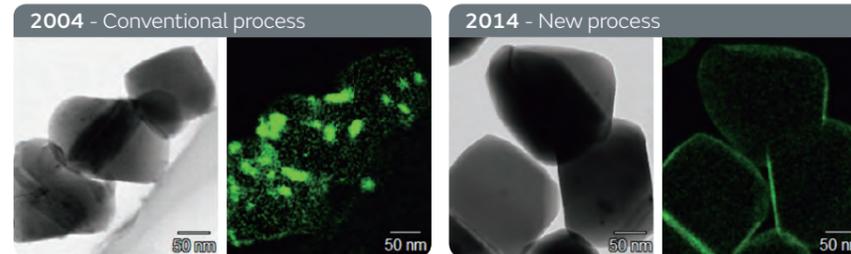
Shaping the future

Making innovation happen

Attending to detail

Materials technology

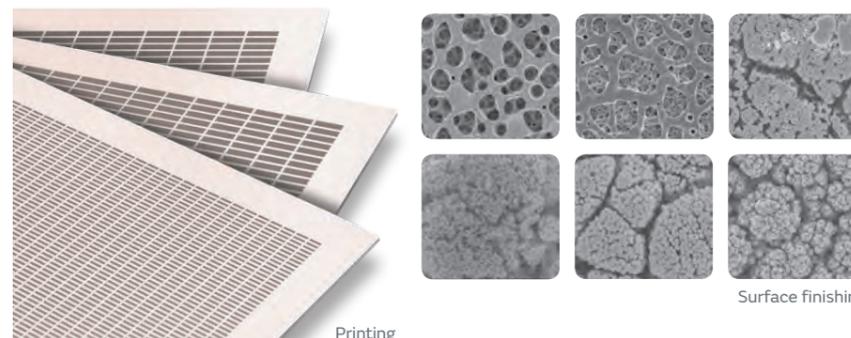
“New electronic devices begin with new electronic components; new electronic components begin with new materials...” Based on that concept, Murata has created functional ceramic materials with outstanding characteristics. And we continuously further advance our technology through the development of new materials with even better characteristics.



Materials processing

Front-end process technology

Front-end process technologies enable us to produce designed functions in the best possible way, and it plays an important role in the miniaturization, slimming down, and high functionality of electronic components.

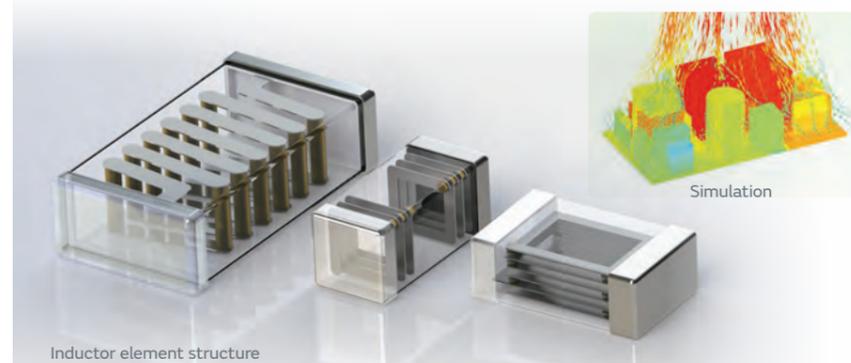


Printing

Surface finishing

Product design technology

From single-function components to modules and on to total solution proposals, the value that Murata has provided over the years continues to evolve. We are involved in development of the technologies and products that can promptly respond to customer needs with an eye on the future.

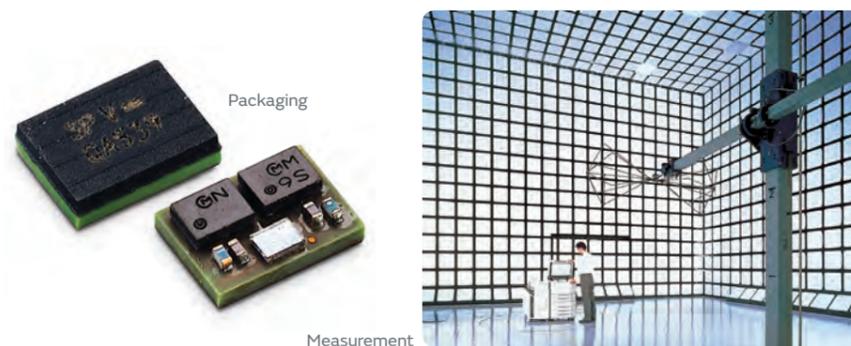


Inductor element structure

Simulation

Back-end process technology

Thanks to our own production facilities and strong manufacturing (“monozukuri”) expertise, we possess numerous technologies and know-how to mass-produce products stably and efficiently.

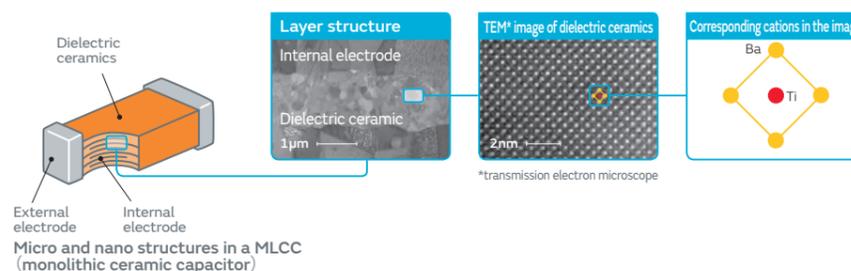


Packaging

Measurement

Analytical technology

Efficient use of scientific analytical methods to confirm physical and electrical properties, composition and structure of materials, together with Murata's advanced failure analysis systems, provide peace of mind to our customers.



Micro and nano structures in a MLCC (monolithic ceramic capacitor)

*transmission electron microscope