



Press Information

KYOCERA Technology Used to Create one of the World's Smallest Crystal Units Awarded Prestigious Research Prize in Japan

42nd Inoue Harushige Prize given to KYOCERA and Osaka University researcher for ultra-compact crystal units used in smartphones, wearables and IoT solutions

Kyoto/London – September 21st, 2017. Kyocera Corporation (President: Hideo Tanimoto) announced that the company has received the 42nd Inoue Harushige Prize for developing ultra-small quartz crystal units for smartphones, wearable devices and innovative IoT solutions. The crystal units, which apply plasma CVM technology, were developed by Kyocera and Dr. Kazuya Yamamura, a professor at Osaka University. The 42nd award ceremony took place on July 25, 2017.

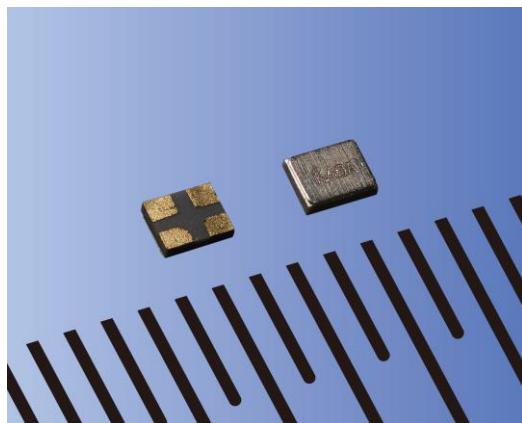
Each year the Inoue Harushige Prize is awarded to researchers and corporations for outstanding innovations that have contributed to science, technology and the economy in Japan. One of the award criteria is technology that was developed and commercialized by corporations based on original research by universities and research institutions.

Kyocera successfully developed ultra-high-precision quartz wafers by combining the unique technology of Kyocera piezoelectric analysis and the plasma CVM technology developed by Dr. Yamamura. From the combination of these unique technologies, Kyocera has realized a photolithographic process with integrated wafer level production. Based on this photolithography technology, Kyocera was able to achieve the world's smallest quartz crystal while still maintaining excellent performance. The business-academia collaboration of Kyocera and Dr. Yamamura was highly evaluated for its impact on further miniaturization in the smartphone, wearable device as well as hearing aid and capsule medical device industries.

Kyocera will accelerate the development of low-frequency crystal units for automotive applications, high-frequency crystal units for wireless base stations, and high-precision oscillators utilizing this technology. The technology will also support the growth of 5G, Advanced Driver Assistance System (ADAS) and IoT markets.



Hideo Tanimoto (left), president of Kyocera Corporation, and Dr. Kazuya Yamamura (right) of Osaka University



CX1008 crystal unit
(scale: 0.5mm)

For more information on KYOCERA: www.kyocera.co.uk

About KYOCERA

Headquartered in Kyoto, Japan, KYOCERA Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry. The strategically important divisions in the KYOCERA Group, which is comprised of 231 subsidiaries (as of March 31, 2017), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the oldest producers of solar energy systems worldwide, with more than 40 years of experience in the industry.

The company is ranked #522 on Forbes magazine's 2017 "Global 2000" listing of the world's largest publicly traded companies. With a global workforce of over 70,000 employees, KYOCERA posted net sales of approximately €11.86 billion in fiscal year 2016/2017. The products marketed by the company in Europe include printers, digital copying systems, microelectronic components, and fine ceramic products. The KYOCERA Group has two independent companies in the United Kingdom: KYOCERA Fineceramics Ltd. and KYOCERA Document Solutions.

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by KYOCERA founder Dr. Kazuo Inamori — to individuals and groups worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (converted at approximately €400,000 per prize category).

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