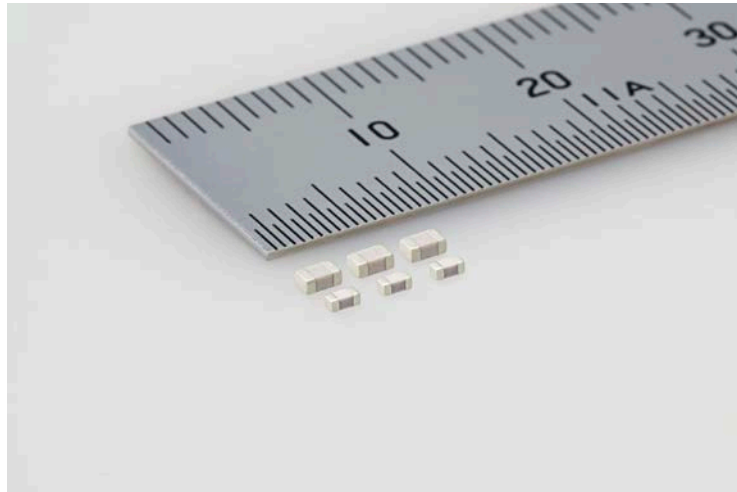


For Immediate Release

**TAIYO YUDEN Adds High-Frequency Medium-High Voltage Multilayer Ceramic Capacitors to its High-Reliability Product Lineup**

*Realizing the Industry's Highest Class Q-Value at a Rated Voltage of 250 V for Communications Equipment Used in Base Stations*



TOKYO, May 27, 2015 - TAIYO YUDEN CO., LTD. will commence with the commercialization of high-frequency medium-high voltage multilayer ceramic capacitors consisting of the QVS212 series (2.0 x 1.25 x 0.85 mm) and the QVS107 series (1.6 x 0.8 x 0.7 mm).

The products will primarily be used in industrial equipment that requires high reliability such as communications equipment for base stations, particularly for the purpose of impedance matching in the high-frequency circuits of wireless communications devices.

The industry's highest class Q-values, at a rated voltage of 250 V for the same size, have been realized through improvement in the material technology and manufacturing process. Wide-ranging product lineups comprising 54 items have been prepared for each size, contributing to reduced losses and improvement in the reliability of wireless communications devices.

Mass-production of the products will begin at the Tamamura Plant (Tamamura-machi, Sawa-gun, Gunma prefecture, Japan) in May 2015, with a cumulative production capacity for both sizes of 10 million pieces per month. Sample prices are 30 yen and 20 yen for the QVS212 series and the QVS107 series, respectively.

### **Technology Background**

Against a backdrop of growth in global communications demand, including increasing data communications due to the proliferation of smartphones and support for new communications standards such as LTE, the demand for mobile communications base stations has been increasing in many countries. This type of communications equipment used in base stations makes up important facilities that support rapidly advancing wireless communications technology and communications infrastructure. Electronics parts used in such equipment must therefore be highly reliable with low loss in order to realize high-speed wireless communications with high efficiency and stability.

Under these circumstances, TAIYO YUDEN will commence with the commercialization of high-frequency medium-high voltage multilayer ceramic capacitors in two sizes with the QVS212 series and the QVS107 series by reassessing the materials used and improving the manufacturing process. In response to requests from the industrial equipment market where high reliability is a key factor, the products realize the industry's highest class Q-values at the high voltage of 250 V, thus contributing to loss reduction and improvement in the reliability of wireless communications devices.

TAIYO YUDEN is committed to further enhancing its product lineup, including size reduction of high-frequency medium-high voltage multilayer ceramic capacitors, as well as the development of high-reliability electronics parts for wireless communications devices.

#### ■ Applications

For impedance matching in the high-frequency circuits of wireless communications devices that are primarily incorporated into industrial equipment requiring high reliability, including communications equipment used in base stations

The product lineups for the high-frequency medium-high voltage multilayer ceramic capacitors to be commercialized are as follows:

QVS212 series (54 items in total)

Part number	Rated voltage (DC)	Temperature characteristics	Capacitance (pF)	Capacitance tolerance
QVS212 CK0R5BD	250 V	C0G	0.5	±0.1 pF
QVS212 CK0R6BD	250 V	C0G	0.6	±0.1 pF
QVS212 CK0R7BD	250 V	C0G	0.7	±0.1 pF
QVS212 CKR75BD	250 V	C0G	0.75	±0.1 pF
QVS212 CK0R8BD	250 V	C0G	0.8	±0.1 pF
QVS212 CK0R9BD	250 V	C0G	0.9	±0.1 pF
QVS212 CK010BD	250 V	C0G	1.0	±0.1 pF
QVS212 CH4R7BD	250 V	C0G	4.7	±0.1 pF
QVS212 CH5R1CD	250 V	C0G	5.1	±0.25 pF
QVS212 CH100CD	250 V	C0G	10	±0.25 pF
QVS212 CH110JD	250 V	C0G	11	±5%
QVS212 CH101JD	250 V	C0G	100	±5%

Note: The product lineup ranging from 1 pF to 100 pF is composed of E24 step capacitors.

QVS107 series (54 items in total)

Part number	Rated voltage (DC)	Temperature characteristics	Capacitance (pF)	Capacitance tolerance
QVS107 CK0R5BC	250 V	C0G	0.5	±0.1 pF
QVS107 CK0R6BC	250 V	C0G	0.6	±0.1 pF
QVS107 CK0R7BC	250 V	C0G	0.7	±0.1 pF
QVS107 CKR75BC	250 V	C0G	0.75	±0.1 pF
QVS107 CK0R8BC	250 V	C0G	0.8	±0.1 pF
QVS107 CK0R9BC	250 V	C0G	0.9	±0.1 pF
QVS107 CK010BC	250 V	C0G	1.0	±0.1 pF
QVS107 CH4R7BC	250 V	C0G	4.7	±0.1 pF
QVS107 CH5R1CC	250 V	C0G	5.1	±0.25 pF
QVS107 CH100CC	250 V	C0G	10	±0.25 pF
QVS107 CH110JC	250 V	C0G	11	±5%
QVS107 CH101JC	250 V	C0G	100	±5%

Note: The product lineup ranging from 1 pF to 100 pF is composed of E24 step capacitors.