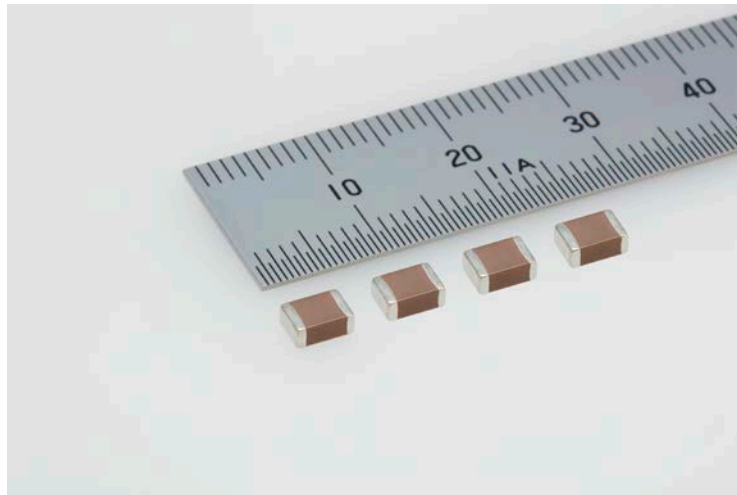


TAIYO YUDEN Commercializes High-Voltage Multilayer Ceramic Capacitor with a Rated Voltage of 2,000 V

Suitable as a countermeasure against lightning surges at the inputs and outputs of base station communications equipment and wireless LAN access points



TOKYO, September 27, 2017 - TAIYO YUDEN CO., LTD. announced today the commercialization of a high-voltage multilayer ceramic capacitor with a rated voltage of 2,000 V, XMK432 B7472KY (4.5x3.2x2.0 mm, X7R).

This product is intended to be used as a countermeasure against lightning surges at the inputs and outputs of base station communications equipment and wireless LAN access points, as well as against noise on DC-DC converters that are used as power supplies for industrial equipment.

TAIYO YUDEN's commercialization of this multilayer ceramic capacitor comes as a result of optimizing the product's internal structure, manufacturing process, and materials.

Production will commence at KOREA KYONG NAM TAIYO YUDEN CO., LTD. (Sacheon-si, Gyeongsangnam-do, Korea) from September 2017 at a production rate of 100 thousand units per month, and with a sample price of 25 yen per unit.

Technology Background

With increasing data traffic and demand for wireless communications typified by the proliferation of IoT in recent years, many wireless LAN access points, including base station communications equipment, have been installed in public spaces. Such equipment, which is interconnected using power cords as well as LAN cables, requires countermeasures that can prevent a surge in voltage caused by lightning from flowing in/out through the LAN cables.

Such measures against lightning surges require high-voltage multilayer ceramic capacitors that can withstand the high voltages involved. To this end, TAIYO YUDEN has commercialized XMK432B7472KY, which has a rated voltage of 2,000 V, by optimizing the materials and internal structure of multilayer ceramic capacitors.

We will continue to add rated voltages to 1,000 V and capacitance to a range of 2,200 pF to 0.1 μ F within this fiscal year to expand our product lineup of high-voltage multilayer ceramic capacitors.

■Applications

As a countermeasure against lightning surges at the inputs and outputs of base station communications equipment and wireless LAN access points, as well as against noise on DC-DC converters that are used as power supplies for industrial equipment.

Characteristics of the high-voltage multilayer ceramic capacitor commercialized by TAIYO YUDEN are as follows:

| Part number | Rated voltage | Temperature characteristics | Capacitance | Capacitance tolerance | Length [mm] | Width [mm] | Thickness [mm] |
|----------------|---------------|-----------------------------|-------------|-----------------------|-------------|------------|----------------|
| XMK432 B7472KY | 2000V | X7R | 4700pF | ±10% | 4.5±0.4 | 3.2±0.3 | 2.0±0.3 |