Multilayer Chip Varistors Protect Hand-Held Mobile Devices Against Electrostatic Discharge

New EIA 0201 Multilayer Chip Varistors from Taiyo Yuden are designed to protect today's slim and compact hand-held mobile devices against electrostatic discharge (ESD). Both the VR063 101A120 and the VR063 101A080 boast the same varistor voltage, ESD resistance and other electrical characteristics as Taiyo Yuden's previous highly regarded EIA 0402 model. However, they measure only 0.6 x 0.3 x 0.3 mm, and are 78% smaller than the EIA 0402.

Because ICs and semiconductor components of digital electronic devices are vulnerable to damaging electrostatic discharge, ESD protection is necessary. Mobile phones, smartphones and digital audio players are particularly susceptible, as they are in contact with the user whose body itself is a source of static electricity. The importance of ESD protection has also increased as the latest slim and compact devices are sacrificing grounding performance, and increasing the number of input-output interfaces for improved functionality.

The VR063 101A120 and the VR063 101A080 Multilayer Chip Varistors are currently being produced in volume quantities. The sample price is $0.05/unit.

Taiyo Yuden's line of EIA0201 Multilayer Chip Varistors is shown below.

Ordering Code	Varistor Voltage [V]	Rated Voltage [V]	Clamping Voltage [V]	ESD Peak Voltage [kV]	Capacitance (reference value) [pF]	
VR063 101A120	12±20%	7.5	22	15	100	
VR063 101A080	8±20%	5.5	15	15	100	
VR063 330A120	12±20%	7.5	22	4	33	

(*indicates new product)

To learn more about Taiyo Yuden's Multilayer Chip Varistors, click here [1]. To download a pdf, click here [2].

About TAIYO YUDEN:

Now in its 60th year, Tokyo-based TAIYO YUDEN CO., LTD. is a worldwide manufacturer of surface-mount and leaded passive components, Bluetooth modules and CCFT inverters. With approximately 50% of the worldwide market in high-frequency multilayer chip inductors used in cell phones, the company reports annual sales of US$2.06B. Worldwide, TAIYO YUDEN employs more than twenty thousand people. The company's North American affiliate, TAIYO YUDEN (U.S.A.), INC., operates sales and engineering offices in Chicago IL, Boston MA, Raleigh NC, Irving TX, Denver CO and in California at San Jose and San Diego.

For more information, visit www.t-yuden.com [3], or contact TAIYO YUDEN (U.S.A.) INC., 1930 Thoreau Drive, Suite 190, Schaumburg, IL 60173, Phone: (847) 925-0888, E-mail: sales@t-yuden.com [4].

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