



New Vishay Intertechnology High Voltage MLCCs Deliver Extended Capacitance for Commercial Applications

February 26, 2025

Available With C0G (NP0) and X7R Dielectrics, Devices Feature Voltages to 3000 VDC and Capacitance From 1.5 pF to 100 nF in Seven Case Sizes From 1206 to 2225

MALVERN, Pa., Feb. 26, 2025 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today introduced a new series of surface-mount multilayer ceramic chip capacitors (MLCCs) for high voltage commercial applications. Offered in seven case sizes ranging from 1206 to 2225, [VJ...W1HV](#) High Voltage MLCC Commercial Series devices extend the capacitance values of the company's existing high voltage MLCCs with the ultra stable C0G (NP0) dielectric and are also available with the X7R dielectric for even higher capacitance.

The devices released today are manufactured in a base metal electrode (BME) system with a dry sheet technology process to reduce costs for a wide range of high voltage applications. The MLCCs will be used as input filtering, output filtering, and snubber capacitors for alternative and conventional energy generation, distribution, metering, management, and storage; industrial automation, motor drives, power tools, and welding equipment; consumer appliances; telecom mobile and fixed infrastructure; and medical instrumentation.

VJ...W1HV High Voltage MLCC Commercial Series devices with the C0G (NP0) dielectric offer high voltages to 3000 VDC, capacitance values from 1.5 pF to 82 nF, and a temperature coefficient of capacitance (TCC) of 0 ppm/°C \pm 30 ppm/°C from -55 °C to +125 °C. X7R devices provide capacitance from 100 pF to 100 nF, voltages to 2000 VDC, and TCC of \pm 15 % from -55 °C to +125 °C.

The MLCCs feature a nickel barrier with 100 % tin terminations and are available with polymer terminations for additional protection against board flexure damage. The devices are RoHS-compliant, halogen-free, and Vishay Green.

Device Specification Table:

Dielectric	Case code	Maximum voltage (V)	Capacitance	
			Minimum	Maximum
C0G (NP0)	1206	3000	1.5 pF	10 nF
	1210	3000	10 pF	10 nF
	1808	3000	2.2 pF	3.3 nF
	1812	3000	10 pF	22 nF
	1825	3000	10 pF	39 nF
	2220	2000	10 pF	47 nF
	2225	2000	10 pF	82 nF
X7R	1206	2000	100 pF	1.2 nF
	1210	2000	100 pF	1.2 nF
	1808	2000	150 pF	1.8 nF
	1812	2000	270 pF	1.8 nF
	1825	1000	1.0 nF	100 nF
	2220	1000	1.0 nF	1.8 nF
	2225	1000	1.0 nF	1.8 nF

Samples and production quantities of the VJ...W1HV High Voltage MLCC Commercial Series devices are available now, with lead times of 18 weeks.

Vishay manufactures one of the world's largest portfolios of discrete semiconductors and passive electronic components that are essential to innovative designs in the automotive, industrial, computing, consumer, telecommunications, military, aerospace, and medical markets. Serving customers worldwide, Vishay is **The DNA of tech**.[®] Vishay Intertechnology, Inc. is a Fortune 1,000 Company listed on the NYSE (VSH). More on Vishay at www.vishay.com.

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Link to product datasheet:

<http://www.vishay.com/ppg?228580> (VJ...W1HV)

Link to product photo:

<https://www.flickr.com/photos/vishay/albums/72177720323985171>

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