

Available With C0G (NP0) and X7R Dielectrics, New High Voltage MLCCs for Commercial Applications Feature Voltages to 3000 V_{DC} and Extended Capacitance From 1.5 pF to 100 nF in Seven Case Sizes From 1206 to 2225

Product Benefits:

- Offered in 1206, 1210, 1808, 1812, 1825, 2220, and 2225 case sizes
- Available with C0G (NP0) and X7R dielectrics
- High voltages to 3000 V_{DC}
- Capacitance values from 1.5 pF to 100 nF
- TCC of 0 ppm/°C ± 30 ppm/°C (C0G (NP0)) and ± 15 % (X7R) from -55 °C to +125 °C
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

- 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

The News:

Vishay Intertechnology introduces 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 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 feature a nickel barrier with 100 % tin terminations and are available with polymer terminations for additional protection against board flexure damage

The Key Specifications:

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



NEW PRODUCT INFORMATION

Product Group: Vishay, MLCCs / February 2025



	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

Availability:

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

To access the product datasheet on the Vishay Website, go to
<http://www.vishay.com/ppg?28580> (VJ....W1HV)

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