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# New SMD Resistor Sample Kit for High Voltage Measurement Circuits

Vishay is pleased to announce the introduction of a new sample kit featuring high voltage SMD resistors with operating voltages up to 3 kV in the range of 100 kΩ to 100 MΩ. The sample kit includes thin and thick film chip resistors in case sizes from 0805 to 2512, as well as thin film MELF resistors in the 0204 and 0207 case sizes.

With the additional inclusion of 0603 precision thin film chip resistors in the range of 1 kΩ to 47 kΩ, the sample kit will not only support designers in selecting resistors for the high voltage side, but also the low voltage side of voltage divider circuits for applications in EV battery management systems, on-board chargers, inverters, or isolation test devices.



The sample kit features AEC-Q200 qualified parts. All parts included are RoHS-compliant.

The resistors are conveniently taped in strips, individually labeled, and packed in a sample book.

SPECIFICATIONS						
Laboratory kit	LAB HV 01					
Resistor type	TNPV e3	MM HV	RCV e3	RCV-AT e3	MC AT	TNPW e3
Imperial size	0805, 1206, 1210	0204, 0207	1206	2010, 2512	0603, 0805, 1206	0603
Maximum operating voltage, $U_{max}$ , AC <sub>RMS</sub> or DC	0805: 450 V 1206: 700 V 1210: 1000 V	0204: 500 V 0207: 1000 V	1206: 500 V	2010: 2000 V 2512: 3000 V	0603: 75 V 0805: 150 V 1206: 200 V	0603: 75 V
Temperature coefficient	± 25 ppm/K	± 50 ppm/K	± 100 ppm/K	± 100 ppm/K, ± 200 ppm/K	± 25 ppm/K	± 25 ppm/K
Voltage coefficient [c]	< 1 ppm/V	< 2 ppm/V	25 ppm/V	25 ppm/V	-	-
Tolerance	± 0.1 %	± 1 %	± 1 %	± 1 %, ± 5 %	± 0.1 %	± 0.1 %
Resistance range / E-series	Refer to Resistance Tables					
Number of resistance values	120					
Resistors per value / total	20 / 2400					
Number of pages / files	12 / 1					
Qualification	AEC-Q200	-	-	AEC-Q200	AEC-Q200	AEC-Q200

PART NUMBER AND PRODUCT DESCRIPTION	
Part number	LABHV01CHIPMELF
Product description	LAB HV 1 CHIP MELF



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## Useful Links

- [High Voltage SMD Resistors Sample Kit Datasheet](#)
- [Order Sample Kit](#)

Contact Information		
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