High-Voltage Probe Measures SiC- And GaN-Based Power Converters

An addition to its HVD probe series, Teledyne LeCroy's HVD3220 high-voltage differential probe features a 400-MHz bandwidth and a 1500-Vdc CAT III and 2000-V (dc + peak ac) CAT I rating. Like other Teledyne LeCroy HVD series probes, it also has exceptional CMRR across a broad frequency range with 65-dB CMRR at 1 MHz, the best available gain accuracy (0.7%, guaranteed), high offset capabilities and the widest differential voltage range (2 kV), according to the vendor.

The HVD3220 is well suited for measuring GaN- and SiC-based power conversion system outputs, line outputs, in-circuit device switching outputs and voltages across other components. According to the company, the 400-MHz bandwidth is more closely aligned with user needs for in-circuit GaN and SiC system testing than its other HVD series probes.

Additionally, some users will also find the HVD3220 useful for gate-drive signal measurements, or for measurements on 60-V common-mode power conversion systems (though Teledyne LeCroy's new DL-HCM series differential probe is targeted specifically to that application). The HVD3220 is priced at $5,250. For more information, see the HVD3220 page.

Figure. A 2-kV, 400-MHz high-voltage differential probe is well suited for measuring GaN- and SiC-based power conversion system outputs, line outputs, in-circuit device switching outputs and voltages across other components. According to the company, the 400-MHz bandwidth is more closely aligned with user needs for in-circuit GaN and SiC system testing than its other HVD series probes.