

CS1110 V_{CE-SAT} Probe vs CS1133 V_{SAT} Probe



The CS1133 V_{SAT} Probe is a redesign of the earlier CS1110 model with improvements in many aspects;

| Feature | CS1110 | CS1133 | Comment |
|---------------------------|--------------------|--|--|
| Input Connection | BNC | Pins | Easier to connect to UUT with short wires for low inductance. Also there is adequate creepage path between the pins for the high input voltages. |
| Probe Head | 65x65x28mm | 70x30x12mm | Smaller enables closer connection to UUT |
| Input Voltage Range | 0 – 1kV | 0 – 3.3kV | Enables higher voltage UUT devices |
| Reverse transient | -9V | -100V | Useful for situations with high DC bus inductance |
| Falling Edge recovery | <80ns | <50ns | Also the 'flatness' after the falling edge is better on the CS1133 due to low storage input design |
| Isolation Working Voltage | 1kV _{RMS} | 1kV _{AC} CAT III or 2kV _{DC} | Allows floating measurements with DC bus voltages up to 2kV. |
| Clip Ranges | 5V | 150mV 1V5 15V | Three ranges enable greater resolution and 'flatness' when working with low RDS-ON MOSFETS or high V_{SAT} in de-saturation measurements. |