

## TOPICS

### Discrimination Technology of Ripple and Noise of SMPS

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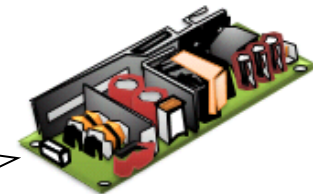
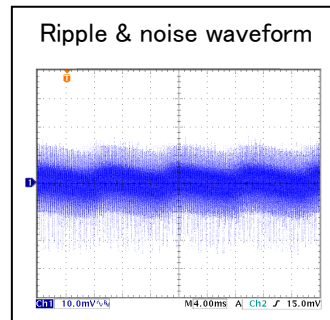
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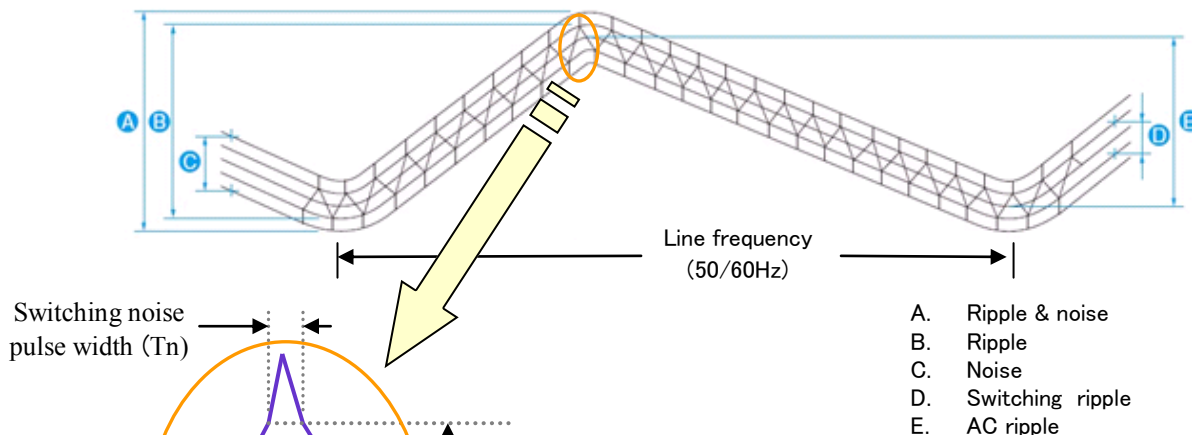
Our unique technology (Pulse width duty ratio comparison) made possible to discriminate ripple voltages and noise voltages from the output of SMPS. With this technology, ripple and noise measurement became easier to implement in ATE or automatic judgment system where it has been considered difficult to measure by oscilloscope.

As seen in the drawing, the output of SMPS contains mixed ripple voltages and noise voltages. It is necessary to discriminate ripple and noise voltages before measuring. Because of its complexity, it was not easy to separate them.



SMPS

Diagram of Ripple and Noise on the output of SMPS



Switching ripple alone can be separated and measured while specifying the ratio (%) of  $T_n$  and  $T_s$  in the Pulse Width Duty Ratio Comparison Method.

Ripple & noise meter



RM-103