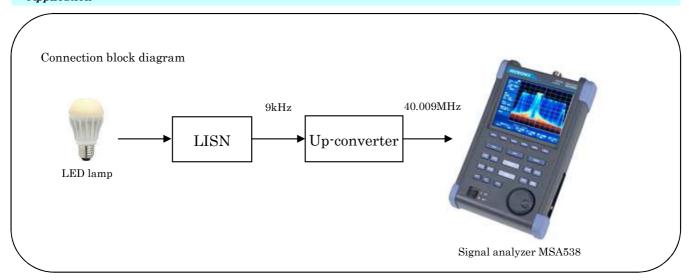


MICRONIX

Conducted emission noise measurement LED lamp with signal analyzer

♦ The conducted emission noise of LED lamp is easily analyzable using a handheld real time signal analyzer.

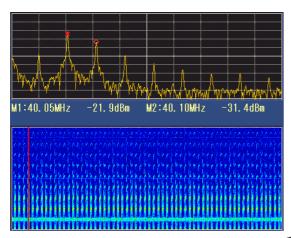
*Application *



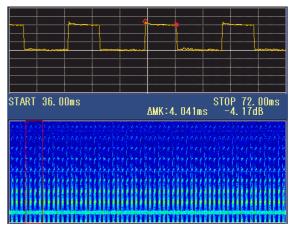
*****Solution *

- Connect AC line of LED lamp to LISN and then connect LISN output to up-converter.
- Lower limit frequency of 20kHz of MSA538 will be improved to 9kHz by an up-converter.
- With a signal analyzer, the signal is analyzable in both frequency domain and time domain.

MAIN screen: spectrum、SUB screen: spectrogram Such signal as a burst can be observed in spectrogram and harmonics can be measured in spectrum.



MAIN screen: power vs time, SUB screen: spectrogram Behavior of more detailed time domain of burst signal in spectrogram can be observed. As shown in following figure, 72ms width specified with marker is measured.



*System configuration *

Signal analyzer [MSA538]	× I
LISN	×1
Up-converter	×1

2013/11