

KEY FEATURES

- Ultra low phase noise (below -140dBc/Hz at 1KHz)
- Ultra low additive jitter
- Plug direct on instrument BNC port
- USB powered
- Sine or Square wave selectable output
- Sine or Square wave input
- Wide input range +10dBm to -10dBm
- +6dBm output power



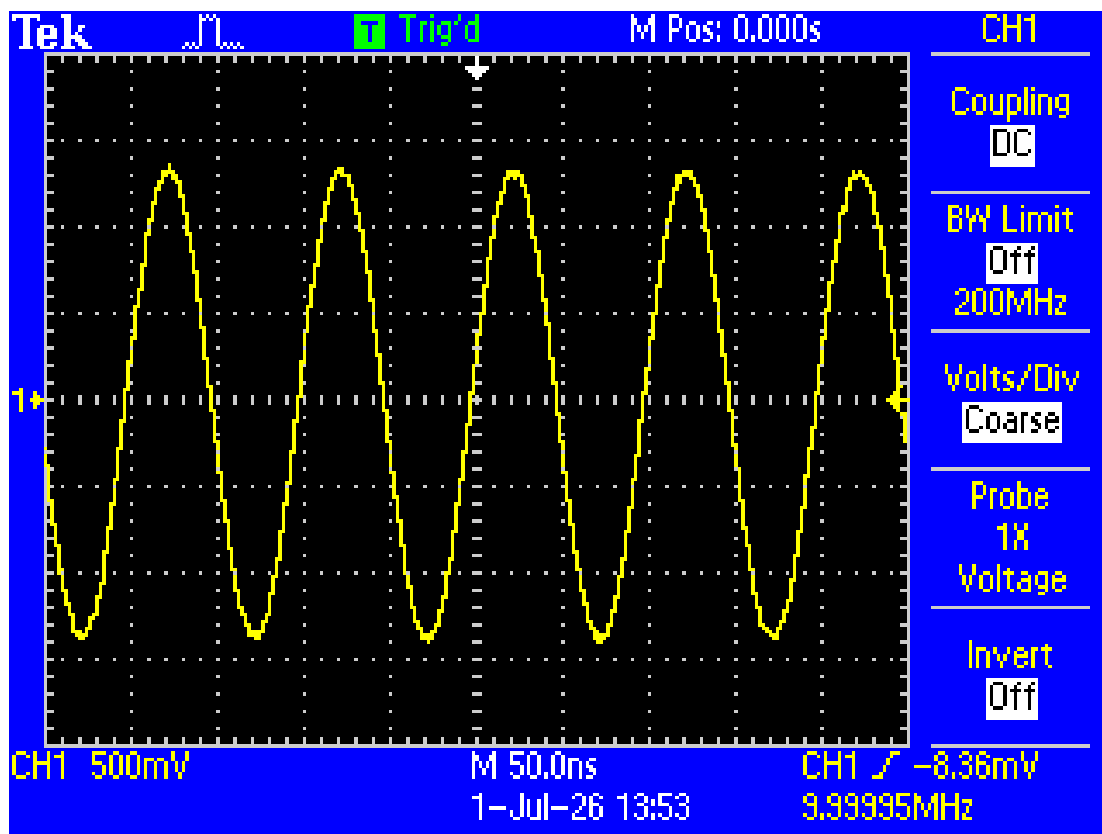
PRODUCT DESCRIPTION

This module is a state of the art frequency divider designed for the conversion of 100MHz instrument reference signals to 10MHz with virtually zero increase in phase noise. The module works automatically when powered from USB and a switch on the side allows the output to be switched between a pure sine wave or square wave.

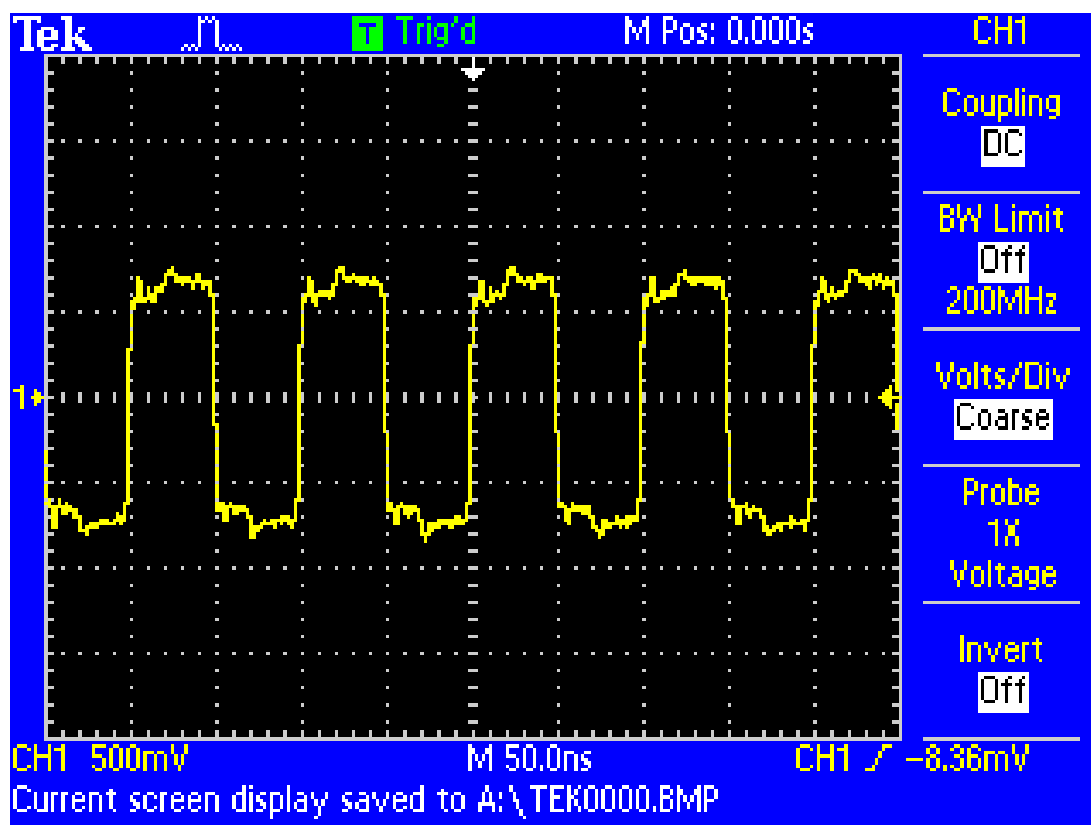
TYPICAL PERFORMANCE DATA

The following plots show measured performance data.

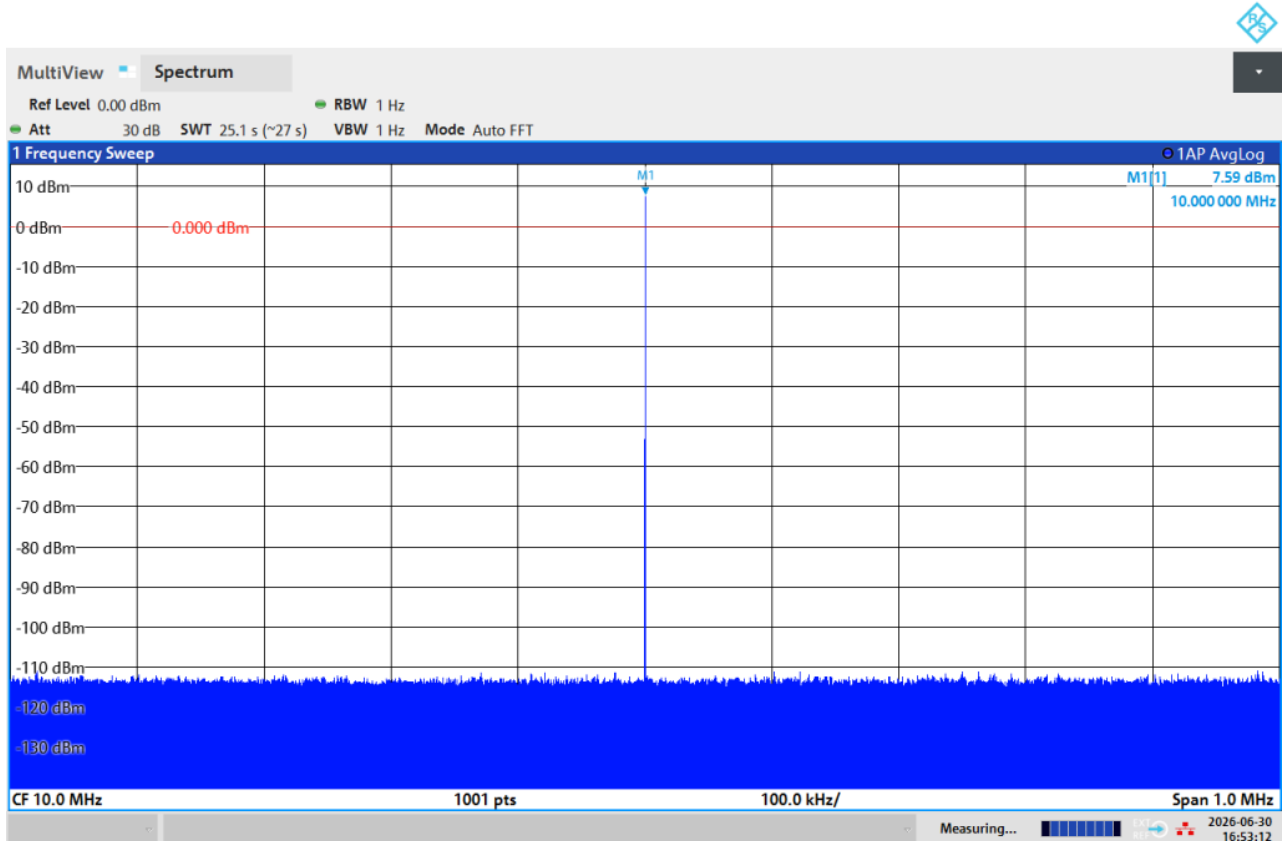
Output on scope when sine wave selected – terminated in 50 Ohm



Output on scope when square wave selected – terminated in 50 Ohm

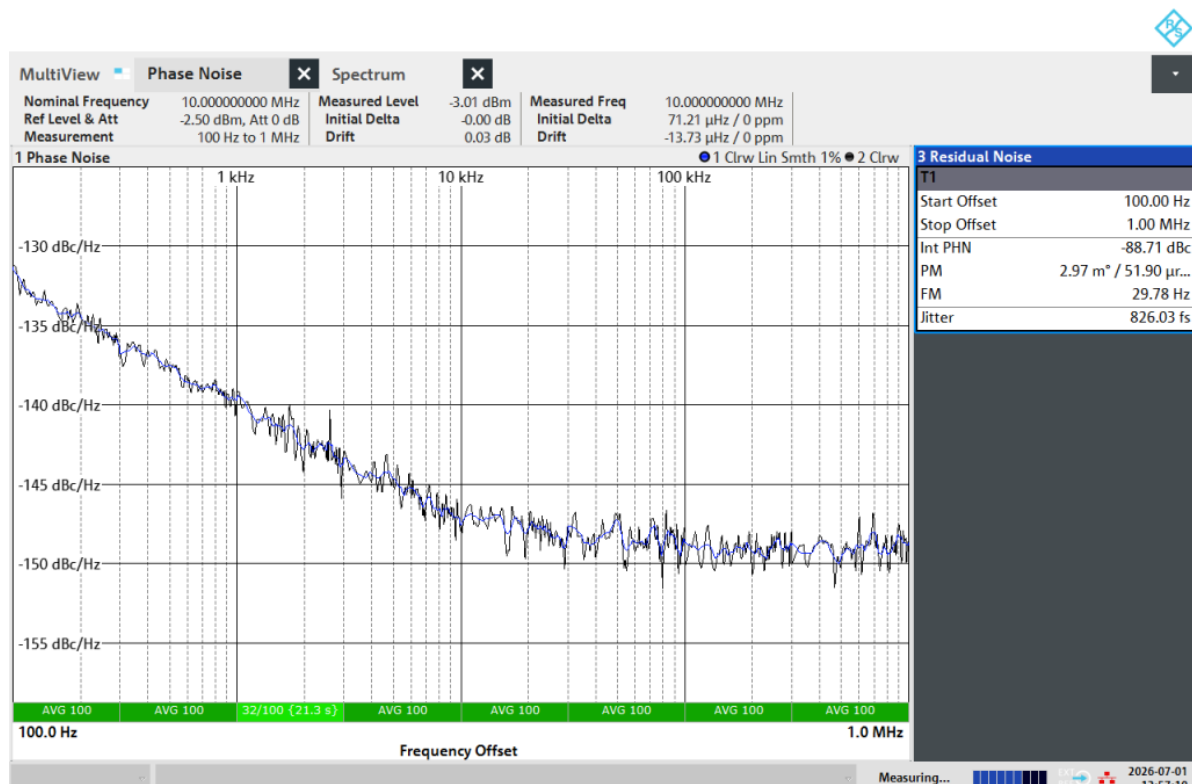


Spectral plot of 10MHz output when using Sine.

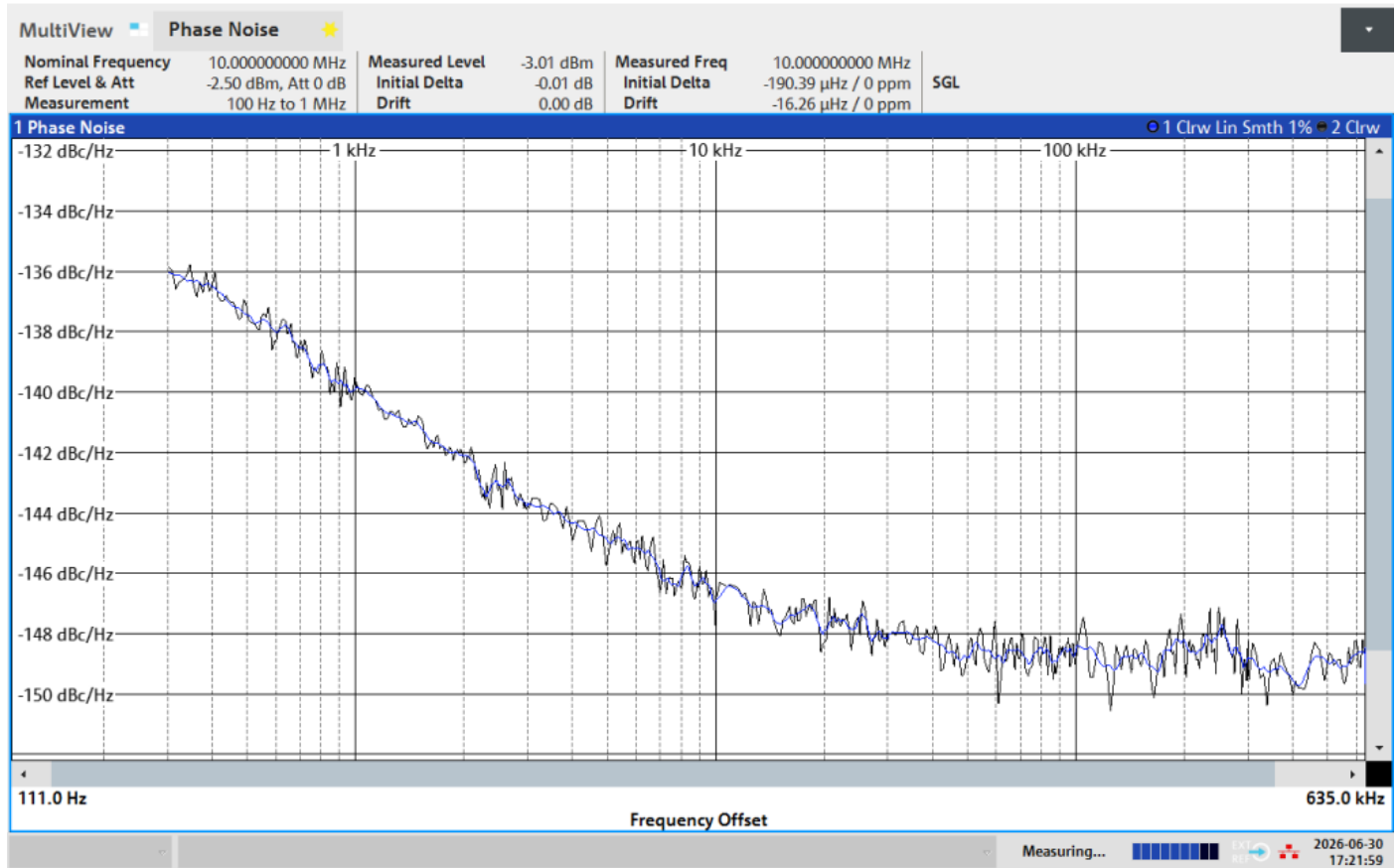


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Jitter measurements on 10MHz output when using a typical 100MHz instrument



Phase noise of divided 10MHz when driven with typical 100MHz instrument.



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