



Product: Ku band PLDRO

NW part #: NWO1570-12-02

Type: Source

Application : High performance radar

Compiled by: Charles Nicholls

Date : 07/21/23

NANOWAVE Technologies Inc. has achieved state of the art phase noise performance of below $-150\text{dBc}/\text{Hz}$ at 1MHz and $-170\text{dBc}/\text{Hz}$ at 10MHz offsets at Ku band with its new line of phase locked DRO technology. NANOWAVE's proprietary in house HMIC process enables chip and wire integration leading to lower insertion loss and improved heat dissipation necessary to achieve ultra-low phase noise over wide operational temperature ranges from 0°C to 70°C without resorting to oven control.

NANOWAVE low phase noise technology is being developed to support high-sensitivity radar systems used for detection of small radar cross-section targets and low reflectivity weather.



Fig. 1: NWO1570-12-02 outline

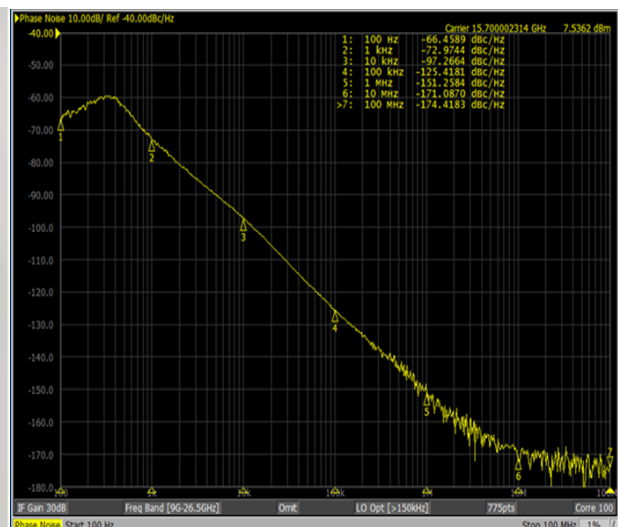


Fig. 2: Measured phase noise at 25°C

For further information contact NANOWAVE Technologies Inc. at sales@nanowavetech.com , or call at (+1) 416-252-5602.