

VAUNIX LMS-802DX – Lab Brick Signal Generator 2-8 GHz

80 dB Power Control · Pulse Modulation & Sweep Trigger Options · Product Datasheet



TECHNICAL SPECIFICATIONS

- **Frequency Range**
2 – 8 GHz
- **Frequency Step Size**
100 Hz
- **Frequency Accuracy**
 ± 2 ppm
- **Switching Speed**
100 μ s typ.
- **Output Power**
10 dBm typ. (10.75 dBm max)
- **Power Control Range**
80 dB
- **Power Resolution**
0.5 dB
- **Phase Noise @ 2 GHz**
-90 / -98 / -126 / -140 dBc/Hz (10 / 100 / 1k / 10k kHz)
- **Phase Noise @ 8 GHz**
-83 / -86 / -118 / -140 dBc/Hz
- **Spurious (in-band)**
-80 dBc typ., -70 dBc max
- **Harmonics**
-40 dBc max
- **VSWR**
1.5 : 1 typ.
- **10 MHz Reference**
Input / Output, 0.5 - 3 Vpp
- **RF Connector**
SMA Female
- **Control**
USB Type B, 5 VDC, 650 mA typ.
- **Operating Temperature**
0 °C to +50 °C
- **Dimensions**
124 x 80 x 40 mm
- **Weight**
450 g

OPTIONAL MODULATION FEATURES

Opt 003 — Pulse Modulation (Int / Ext)	Opt 004 — Frequency Sweep Trigger
Pulse Depth 60 dB min, 70 dB typ.	Sweep Bands Band 1: 2 - 4 GHz / Band 2: 4 - 8 GHz
Pulse Width (min) 100 ns	Sweep Time 0.001 - 1000 s
Pulse Repetition Interval (min) 200 ns	Sweep Mode Phase-Continuous Linear
Resolution 100 ns	Direction Unidirectional or Bidirectional
Trigger In/Out 3 - 5 Vpp via BNC Female	Trigger In/Out 3 - 5 Vpp via BNC Female

APPLICATIONS

Portable LO Source Local Oscillator for mixers, down- and up-converters across S- and C-band	RADAR Receiver Test Low-cost signal source for pulsed RF characterization with Opt 003	Engineering & Production Test Multi-device setups with several LMS generators on one PC or USB hub
Automated Test Equipment (ATE) Rack-friendly (fits 1U) and SDK-controlled for production test lines	5G sub-6 GHz & WiFi Test Precise level control for multi-standard wireless validation up to 8 GHz	Frequency Hopping Simulation Fast 100 μ s switching for frequency agility tests with Opt 004