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MX6000PRO – 6GHz HIGH-PERFORMANCE WIDEBAND INTEGRATED-LO RF MIXER



Up-converting, down-converting, or general purpose mixer with programmable harmonic-filtered local oscillator and stand-alone controls.

-MX6000PRO R1 Specifications-

- Integrated **1.0–6.5GHz** Local Oscillator
- Mixer RF frequency range: **1.5-6.5GHz**
- Mixer IF frequency range: **1-2000MHz**
- Typical LO to RF isolation: 30dB
- Typical LO to IF isolation: 15-20dB
- Phase noise, 6GHz @ 10KHz: < **92 dBc**
- LO frequency step size: 2Hz
- Low conversion loss: < 8dB typical
- Return loss: >12 dB
- Typical IP3: 10dBm
- Input P1dB: 1dBm
- Up and down-converting
- LO Harmonic level: < -35dBc
- Reference frequency: 10MHz

-Mixer Features-

- Extremely low LO phase-noise
- Tiny frequency step size
- Internal 280ppb TCXO reference source
- USB Type-C powered
- Compact, rugged all-metal enclosure
- Bright and efficient OLED display
- Adjustable LO power
- Industry-standard Virtual COM Port
- 50-Ohm gold SMA ports
- External MCX reference input (10MHz)
- High-performance LO harmonic-filtering
- Local oscillator output port (MCX)



-Performance Vs. Standard MX6000C-

- **LO phase-noise more than 20dB lower**
- **Frequency step size 1000x smaller**
- **Internal reference source 10x more stable**
- **Less LO harmonics and spurious content**
- **Wider frequency range**

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