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## MX40000PRO – 40GHZ INTEGRATED-LO WIDEBAND MICROWAVE MIXER



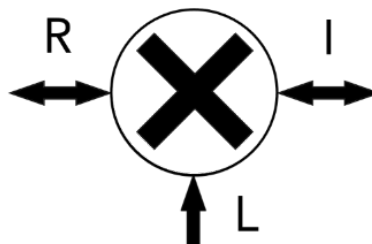
Up-converting, down-converting, or general purpose mixer with programmable local oscillator and stand-alone controls.

### - MX40000 PRO Specifications -

- Integrated **25–40GHz** Local Oscillator
- Mixer RF frequency range: **18-41GHz**
- Mixer IF frequency range: **5-18000MHz**
- Low conversion loss: **12dB** typical
- IP3: 20dBm
- Input P1dB: +10dBm
- LO to RF isolation: 35dB
- LO to IF isolation: 30dB typ.
- RF to IF isolation: 12-30dB
- Typical return loss: > 6dB
- Up and down-converting
- Phase noise: 30GHz @ 10kHz: < 85dBc
- Max RF input power: **+18dBm**

### - Microwave Mixer Features -

- Dual USB-C powered
- Internal  $\pm 10$ ppb **OCXO** 10MHz reference
- Ethernet, USB, and button control
- Harmonic-filtered LO source
- Precision **2.92mm** RF port, SMA IF port
- Bright and efficient OLED display
- Adjustable LO power
- External MCX reference input/output
- Simple and effective control interface
- Voltage and temperature monitoring
- Included PC control software
- Rugged aluminum enclosure



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