



MX12000 – USB POWERED WIDEBAND INTEGRATED-LO MICROWAVE MIXER



Compact, reliable, and economical microwave frequency conversion for general purpose application!

- MX12000 Rev 14 Microwave Mixer Specifications -

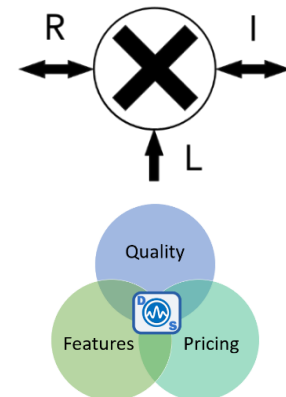
- Local Oscillator Range: **5GHz – 14GHz** (15GHz with increased loss)
- RF Range: **5GHz – 14GHz** (15GHz with increased loss)
- IF Range: **5MHz to 6GHz**
- Low conversion loss: **7-10dB** Typical
- RF input P1dB > **+10 dBm**
- LO-to-RF isolation: > 35 dB typical
- LO-to-IF isolation: > 40 dB typical (LO > 7.5GHz)
- IF-to-RF isolation: > 25dB (7.5-14GHz RF)
- Mixer input IP3: 17dBm
- Mixer input IP2: 50dBm
- LO phase noise at 12GHz: < **-98dBc** @ 10KHz offset
- LO phase noise at 12GHz: < **-108dBc** @ 100KHz offset
- Modes: Up or Down Converting (Bi-directional RF & IF ports)
- LO reference frequency: 10MHz & 100MHz
- USB powered and controlled (USB-C)
- **Standard** Ethernet port
- New LO-to-IF filtering hardware
- Extremely low LO spurious levels

- Usage Notes -

Maximum input power level of **+22dBm** for IF and RF!

A high-current 5V USB port is critical for reliable operation!

ESD warning! Always wear a grounding strap when handling sensitive microwave equipment!



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