CERNEX, Inc.

# Dielectric Resonator Oscillators

## FEATURES:

- Internal voltage regulated
- Excellent frequency stability
- Low phase noise
- Available from 2 to 26.5 GHz
- Low cost and reliable construction

## APPLICATIONS:

- Communication systems
- Radar systems
- Frequency reference
- Local oscillators

**CDO Series**

## SPECIFICATIONS:

| Operating Specifications | | | | |
|---|---|---|---|---|
| Frequency Range | 4.0 - 7.9 GHz | 8.0 – 13.0 GHz | 13.0 – 18.0 GHz | 18.0 – 26.5 GHz |
| Output Power | 14.5 dBm | 14 dBm | 13 to 23 dBm | 13 to 23 dBm |
| Frequency Stability | +5 ppm/°C | +5 ppm/°C | +/-3 ppm/°C | +/-3 ppm/°C |
| Phase Noise (Typ) | -90dBc/Hz at 10KHz offset | -85dBc/Hz at 10KHz offset | -65dBc/Hz at 1KHz offset | -60dBc/Hz at 1KHz offset |
| | | | -75dBc/Hz at 10KHz offset | -70dBc/Hz at 10KHz offset |
| | -120dBc/Hz at 100KHz offset | -115dBc/Hz at 100KHz offset | -107dBc/Hz at 100KHz offset | -102dBc/Hz at 100KHz offset |
| 2nd Harmonic (Max) | -18 dBc | -20 dBc | -20 dBc | -20 dBc |
| Spurious (Max) | -80 dBc | -80 dBc | -60 dBc | -60 dBc |
| Bias (V/Ma) | +8 to +18 Vdc<br>65 mA | +8 to +18 Vdc<br>65 mA | +12 Vdc<br>100 to 200 mA | +12 Vdc<br>100 to 200 mA |
| Temperature | -30 to +70° C | -30 to +70° C | 0 to +50° C | 0 to +50° C |

OTHER FREQUENCIES ARE ALSO AVAILABLE.

## HOW TO ORDER:

Specify Model Number

CDO – LF HF PP -- XX ← To be specified by the Factory

Output Power in dBm

Low End Frequency

High End Frequency

**Example:** To order a 10Ghz CDO with output power of 15dbm, specify CDO081315-XX

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE