

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:

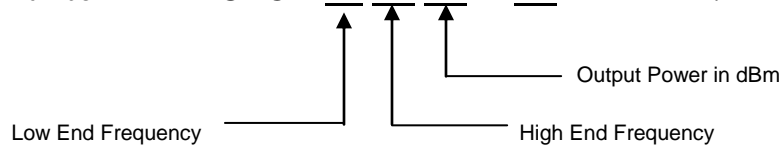
Operating Specifications						
Frequency Range	2.0 -4.0 GHz	4.0 - 7.9 GHz	8.0 – 13.0 GHz	13.0 – 18.0 GHz	18.0 – 26.5 GHz	18.0 – 26.5 GHz
Bandwidth	100 MHz	100 MHz	100 MHz	100 MHz	100 MHz	
Output Power	10 to 27 dBm	10 to 27 dBm	10 to 27 dBm	0 to 23 dBm	0 to 23 dBm	13 to 23 dBm
Frequency Stability	+5 ppm/°C	+5 ppm/°C	+5 ppm/°C	+/-3 ppm/°C	+/-3 ppm/°C	+/-3 ppm/°C
Phase Noise (Typ)	-90dBc/Hz at 10KHz offset	-90dBc/Hz at 10KHz offset	-85dBc/Hz at 10KHz offset	-65dBc/Hz at 1KHz offset	-65dBc/Hz at 1KHz offset	-60dBc/Hz at 1KHz offset
	-120dBc/Hz at 100KHz offset	-120dBc/Hz at 100KHz offset	-115dBc/Hz at 100KHz offset	-75dBc/Hz at 10KHz offset	-75dBc/Hz at 10KHz offset	-70dBc/Hz at 10KHz offset
	-120dBc/Hz at 100KHz offset	-120dBc/Hz at 100KHz offset	-115dBc/Hz at 100KHz offset	-107dBc/Hz at 100KHz offset	-107dBc/Hz at 100KHz offset	-102dBc/Hz at 100KHz offset
2 nd Harmonic (Max)	-18 dBc	-18 dBc	-20 dBc	-20 dBc	-20 dBc	-20 dBc
Spurious (Max)	-80 dBc	-80 dBc	-80 dBc	-60 dBc	-60 dBc	-60 dBc
Bias (V/Ma)	+8 to +18 Vdc	+8 to +18 Vdc	+8 to +18 Vdc	+12 Vdc	+12 Vdc	+12 Vdc 100 to 200 mA
Temperature	-30 to +70° C	-30 to +70° C	-30 to +70° C	0 to +50° 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



CERNEXWAVE

Dielectric Resonator Oscillators

Example: To order a 10-10.1Ghz CDO with output power of 15dbm, specify CDO101015-XX
CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE