

Voltage Controlled Oscillators

FEATURES:

- ❖ Frequency Range: 2.05-38.5GHz
- ❖ No External Resonator Needed
- ❖ Low Cost
- ❖ Low Phase-noise Performance
- ❖ High reliability
- ❖ High frequency stability/High Reliability



CVO Series

APPLICATIONS:

- ❖ Wireless Infrastructure
- ❖ Industrial Controls
- ❖ Test Equipment
- ❖ Military
- ❖ Point-to-Point Radio

SPECIFICATIONS:

Narrowband (with Buffer):

Model Number	Frequency Range (GHz)	Output Power (dBm)	10kHz SSB Phase Noise (dBc/Hz)	100kHz SSB Phase Noise (dBc/Hz)	DC Bias Supply
CVO020203H	2.05 - 2.25	3.5	-89	-112	+3V @ 35mA
CVO020204H	2.25 - 2.5	4.5	-89	-115	+3V @ 35mA
CVO020205H	2.6 - 2.8	5	-88	-115	+3V @ 35mA
CVO020304H	2.75 - 3.0	4.5	-89	-114	+3V @ 37mA
CVO030304H	3.15 - 3.4	4.9	-88	-113	+3V @ 39mA
CVO030304H	3.35 - 3.55	4.7	-89	-112	+3V @ 41mA
CVO030304H	3.55 - 3.9	4.7	-87	-112	+3V @ 42mA
CVO030405H	3.9 - 4.45	5	-81	-106	+3V @ 30mA
CVO040504H	4.45 - 5.0	4	-79	-105	+3V @ 30mA
CVO050502H	5.0 - 5.5	2	-80	-103	+3V @ 27mA
CVO050602H	5.5 - 6.1	2	-80	-102	+3V @ 27mA
CVO050604M	5.5 - 6.5	4.5	-77	-97	+5V @ 20mA
CVO050610H	5.8 - 6.8	10	-82	-105	+3V @ 100mA
CVO050605M	5.8 - 6.9	5.0	-77	-97	+5V @ 20mA
CVO060604H	6.1 - 6.72	4.5	-73	-101	+3V @ 31mA
CVO060705M	6.4 - 7.4	5.0	-77	-97	+5V @ 20mA
CVO060711H	6.8 - 7.4	11	-80	-106	+3V @ 80mA
CVO060704M	6.8 - 7.9	4.5	-77	-97	+5V @ 20mA
CVO070805M	7.4 - 8.6	5.0	-77	-97	+5V @ 20mA
CVO070814H	7.8 - 8.7	14	-80	-103	+3V @ 77mA
CVO242414U	24-24.25	14	-	-	-

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Broadband:

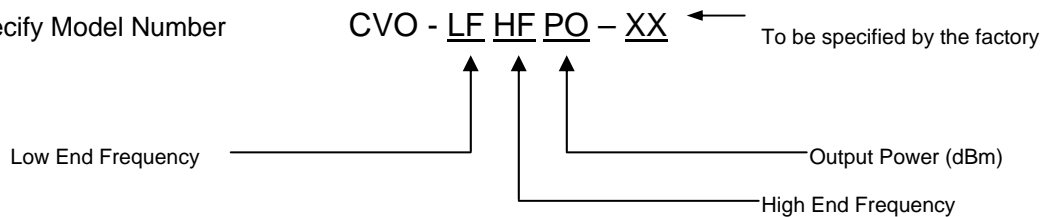
Model Number	Frequency Range (GHz)	Output Power (dBm)	10kHz SSB Phase Noise (dBc/Hz)	100kHz SSB Phase Noise (dBc/Hz)	DC Bias Supply
CVO051005H	5 – 10	5	-65	-95	+5V @ 55mA
CVO081205H	8 – 12.5	5	-65	-93	+5V @ 55mA

With-Divider:

Model Number	Frequency Range (GHz)	Output Power (dBm)	Divider	10kHz SSB Phase Noise (dBc/Hz)	100kHz SSB Phase Noise (dBc/Hz)	DC Bias Supply
CVO101107D2D4H	10.43 – 11.46	7	Fo/2 & 4	-85	-110	+3V @ 275mA
CVO111207D2D4H	11.17 – 12.02	7	Fo/2 & 4	-85	-110	+3V @ 275mA
CVO111210D2D4H	11.5 – 12.5	10	Fo/2 & 4	-85	-110	+5V @ 200mA
CVO121308D2D4H	12.4 – 13.4	8	Fo/2 & 4	-85	-110	+5V @ 260mA
CVO131308D8H	13.2 – 13.5	-8	Fo/8	-83	-110	+5V @ 230mA
CVO131407D2D4H	13.6 – 14.9	7	Fo/2 & 4	-82	-110	+5V @ 260mA
CVO141506D8H	14 – 15	6	Fo/8	-75	-110	+5V @ 260mA
CVO141506D2M	14.2 – 15.2	6.0	Fo/4	-	-88	+4V @ 110mA
CVO141505D2M	14.7 – 15.7	5.0	Fo/4	-	-88	+4V @ 110mA
CVO232411D16H	23.8 – 24.8	11	Fo/16	-70	-98	+5V @ 225mA
CVO373909D2U	37 – 39	9	Fo/2	-	-100	+4.5/-4.5V @ 120/3mA
CVO383807D3U	38 – 38.5	7	Fo/3	-48	-75	+4.5/-4.5V @ 110/5mA
CVO383804D3U	38 – 38.5	4	Fo/3	-52	-82	+5V @ 180mA

HOW TO ORDER:

Specify Model Number



Example: To order a VCO with Low End Frequency at 5.8GHz and High End Frequency at 6.8 GHz with Output Power at 10dBm , specify CVO050610-XX.

NOTES: * CONSULT THE FACTORY

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE