Product Specification Summary

High-Performance Clock Oscillators For Lightwave Systems to 43 Gb/s

Narda's fiber-optic clock oscillators deliver exceptional performance in OC-192 and OC-867 optical communications systems. They are based on ultra-stable dielectric resonator oscillator (DRO) technology and have RF outputs of 9.9 GHz (FO-CL-10-00), 19.5 to 22 GHz (FO-CL-00-40), and 39 to 44 GHz (FO-CL-40-00).

They are rugged, compact units that deliver extremely high performance in key metrics such as phase noise, stability, and frequency sensitivity that are required for high-order modulation schemes, and high reliability thanks to Narda's advanced surface-mount fabrication techniques. Their power consumption is very low and power output as high as 18 dBm.



FO-CL Series

Key features

- Advanced DROs deliver exceptional stability
- Extremely low phase noise ensures minimal jitter
- Low DC power consumption
- Three models:
 - FO-CL-10-00: 9953 MHz output (OC-102)
 - FO-CL-20-00: 19.5 to 22 GHz output (OC-768)
 - FO-CL-40-00: 39 to 44 GHz output (OC-768)
- RF output power from +12 to +18 dBm
- -30° to +70° C temperature range

Parameter	FO-CL-10-00	FO-CL-20-00	FO-CL-40-00
Output frequency (GHz)	9.95328	19.5 to 22	39 to 44
Linear tuning range (MHz)	14	20 to 40	25 to 50
Tuning voltage (VDC)	3 to 5	3 to 5 (high K) 2 to 10 (low K)	3 to 5 (high K) 1 to 10 (low K)
Modulation sensitivity (MHz/V)	5.5	12 (high K) 2 (low K)	24 (high K) 4 (low K)
Typical RF output power (dBm)	+12	+18	+12
Phase noise (dBc/Hz 1 kHz offset: 100 kHz offset: 1 MHz offset	-60 -120 -140	-57 -115 -135	-55 -110 -130
Power (VDC@mA)	+12 @ 160	+8 to 12 @ 190 -8 to -12 @ 15	+8 to 12 @ 225 -8 to -12 @ 15
Size (in.)		2.25 x 2 x 0.88	

Please consult the factory for detailed product specifications.



3 communications company

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