



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2014

12.8GHz Phase Locked Dielectric Resonator Oscillator

PMI Model No. PIA-12D8G-CD-1



PMI Model No. PIA-12D8G-CD-1 is a Phase Locked, Dielectric Resonator Oscillator with Internal Reference having an output frequency of 12.8GHz. This model provides a minimum output of +13dBm with all spurs held to -80dBc and harmonics held to -25dBc. The frequency stability is ± 3 ppm with an internal reference of 100MHz. The phase noise is as follows: -34dBc/Hz at 1Hz, -65dBc/Hz at 10Hz, -85dBc at 100Hz, -108dBc/Hz at 1kHz, -115dBc/Hz at 10kHz, -120dBc/Hz at 100kHz, and -140dBc/Hz at 1MHz offsets. The oscillator requires +15VDC and 300mA. There is a built in alarm which outputs a TTL signal when phase locked. The unit measures 2.25" x 2.25" x 0.62". Other frequency ranges are available.

Frequency Output	12.8GHz
Power Output	+13dBm minimum
VSWR	1.4:1
Internal Reference	100MHz
Frequency Stability	± 3 ppm
Spurious	-80dBc
Harmonics	-25dBc
Phase Noise @ Offset	-34dBc/Hz @ 1Hz -65dBc/Hz @ 10Hz -85dBc/Hz @ 100Hz -108dBc/Hz @ 1kHz -115dBc/Hz @ 10kHz -120dBc/Hz @ 100kHz -140dBc/Hz @ 1MHz
DC Voltage Supply	+15VDC
DC Current	300mA maximum
Phase Lock Alarm	TTL
Connectors	SMA Female
Finish	Nickel
Size	2.25" x 2.25" x 0.62"

PLANAR MONOLITHICS INDUSTRIES, INC.

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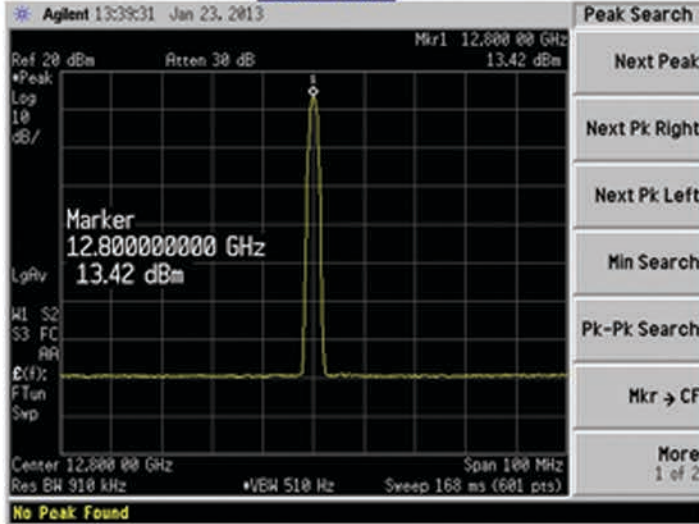
4921 Roberts J. Mathews Parkway
Suite 1 El Dorado Hills, CA 95762 USA

Tel: 916-542-1401 | Fax: 916-265-2597

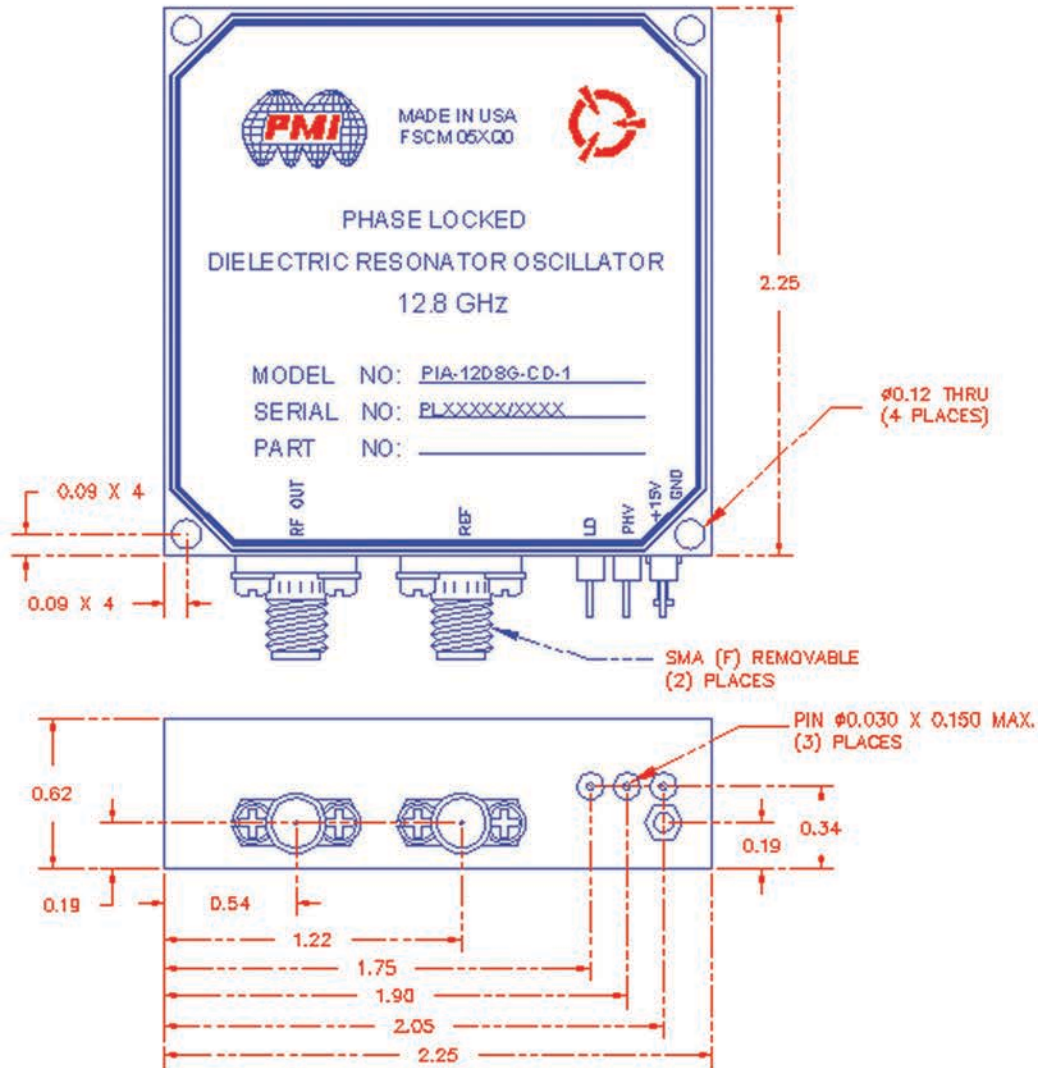
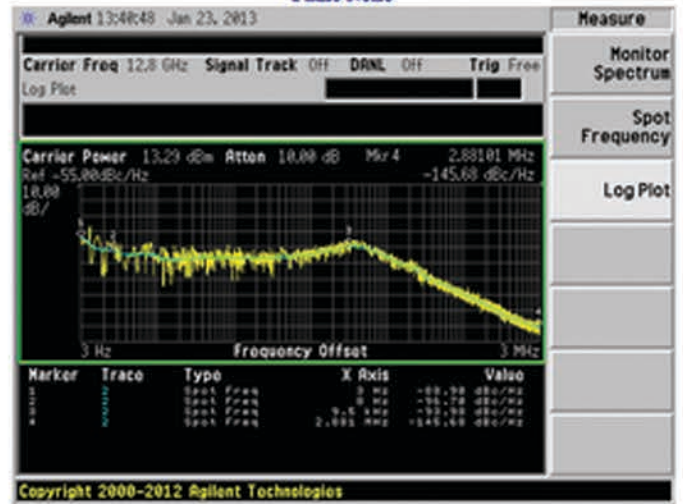
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Power Output



Phase Noise



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