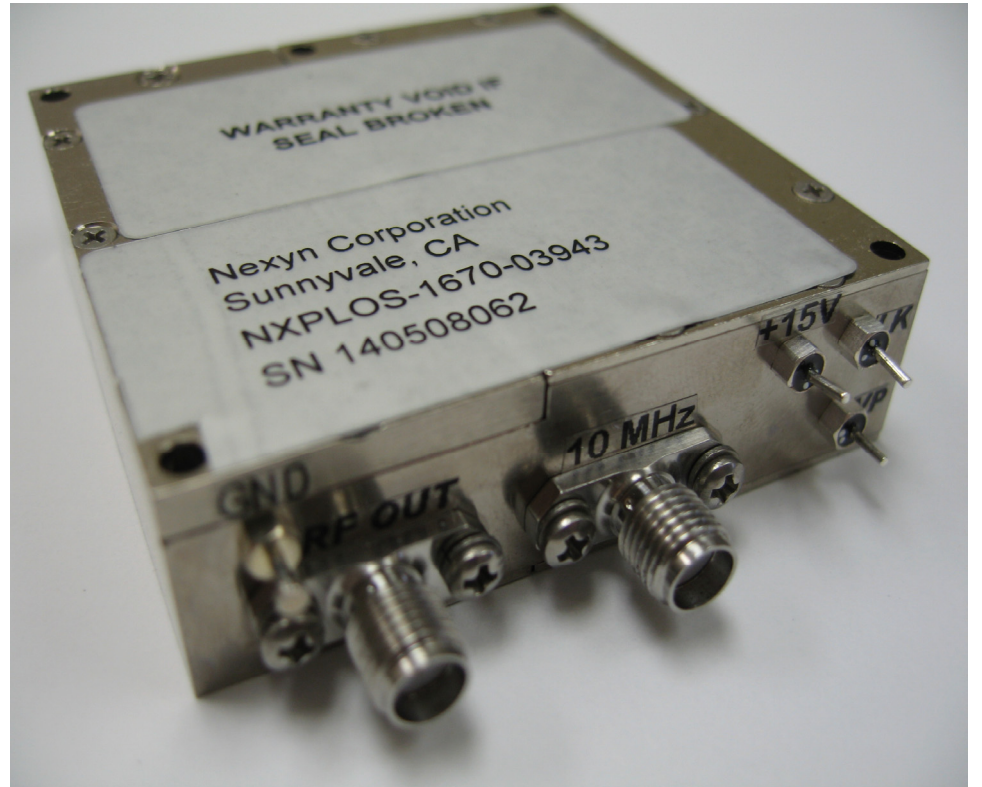


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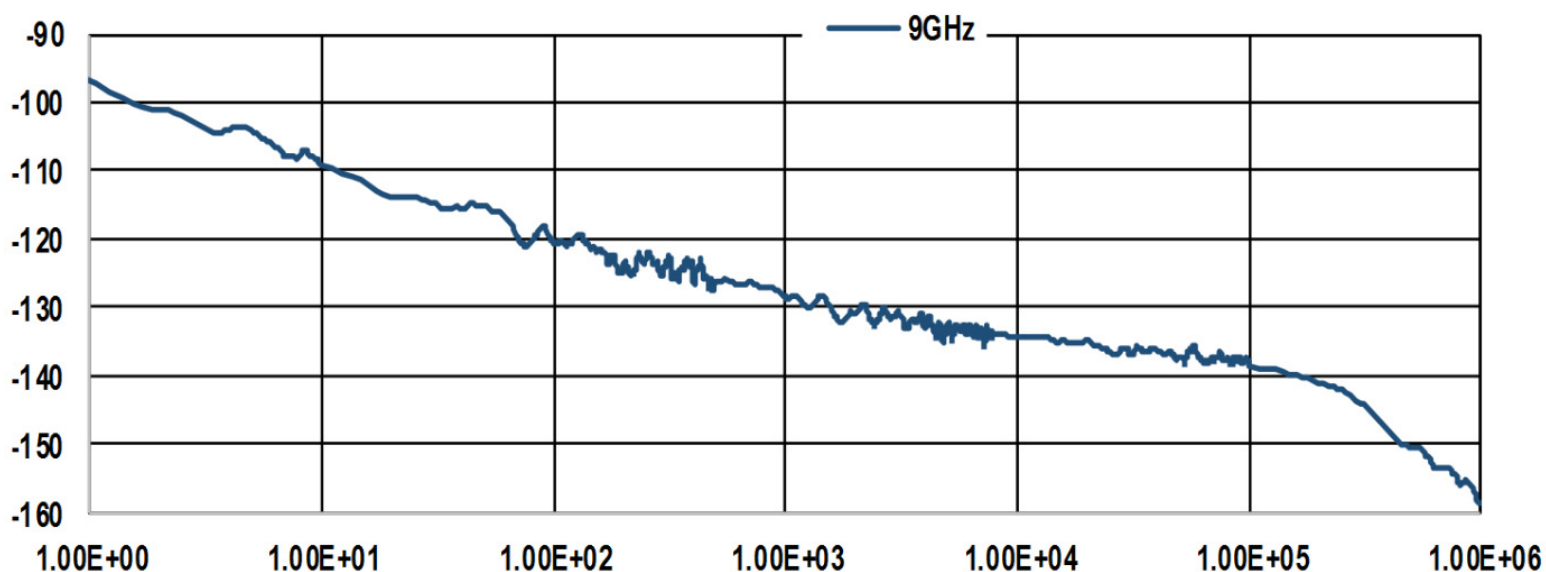
Lowest phase noise on the market.

LOW POWER (< 0.5W) Phase Locked DRO

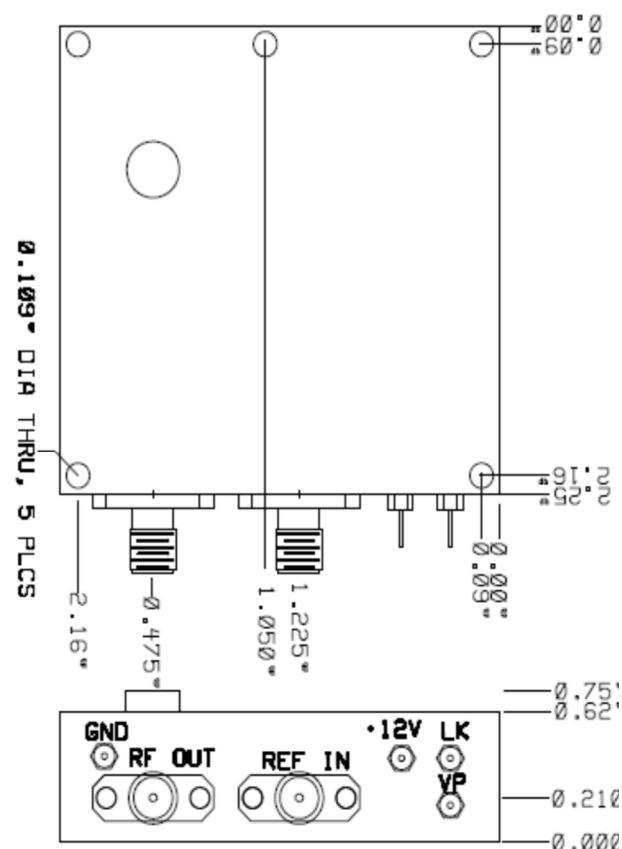
Applications: PLDROs offer the best combination of ultra low phase noise and excellent frequency accuracy when phase locked to a clean stable external crystal reference. PLDROs are ideal choice for commercial and military communication and radar applications, and where low cost, excellent phase noise is essential for system performance requirements. Nexyn PLDROs are available with a harmonic sampler based approach for the ultimate in performance. For cases where the system is cost sensitive and/or a crystal reference >10MHz is unavailable, Nexyn offers PLDROs capable of locking directly to the system 5 or 10MHz reference.



LOW RESIDUAL PHASE NOISE 9 GHz PLDRO TO 1 Hz OFFSET



SERIES	NXPLoS-LR		
FREQUENCY (GHz)	6.8, 9.2		
FREQUENCY ACCURACY	COHERENT TO EXT REF		
EXTERNAL REF FREQ (MHz)	50, 100, 125		
MINIMUM OUTPUT POWER RANGE OVER TEMP)	7		
POWER VARIATION IN +/- dB (OVER TEMP)	1	1	1.5
HARMONICS (dBc)	-20		
SPURIOUS (dBc)	-80		
LOCK ALARM	OPEN COLLECTOR W 10K PULLUP TO +5V		
TEMPERATURE RANGE (degC)	0 to +60	-20 to +70	-40 to +85
POWER SUPPLY (V)	+5V		
MAX DC CURRENT (mA) @ 25C	80		



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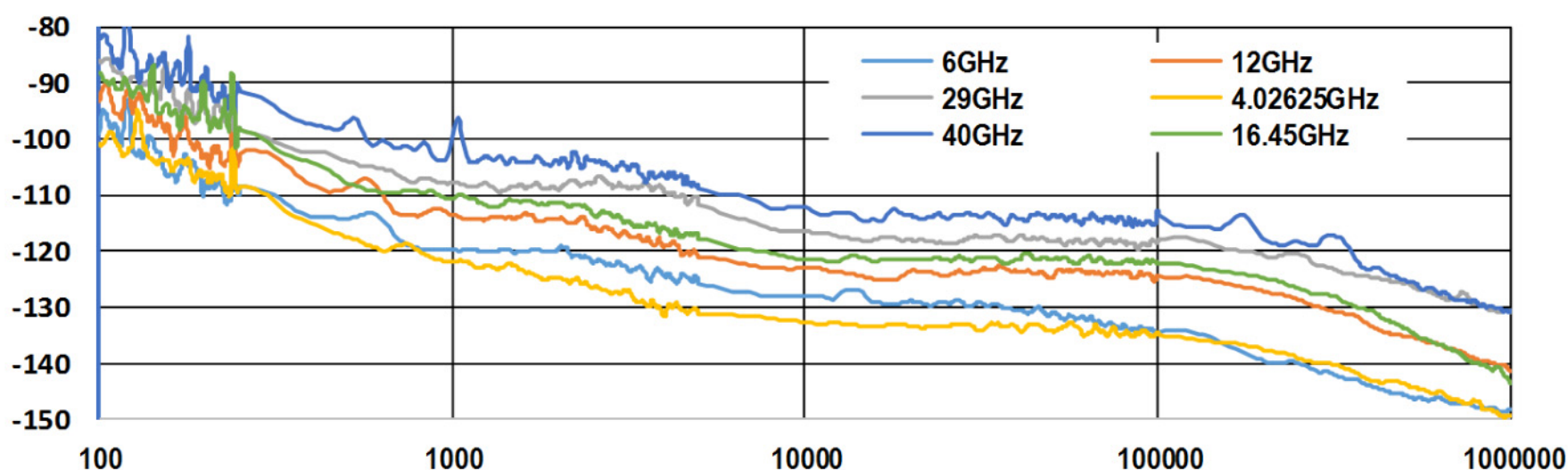
Lowest phase noise on the market.

Phase Locked DRO w/ Dual Loop (with 10 MHz External Ref.)

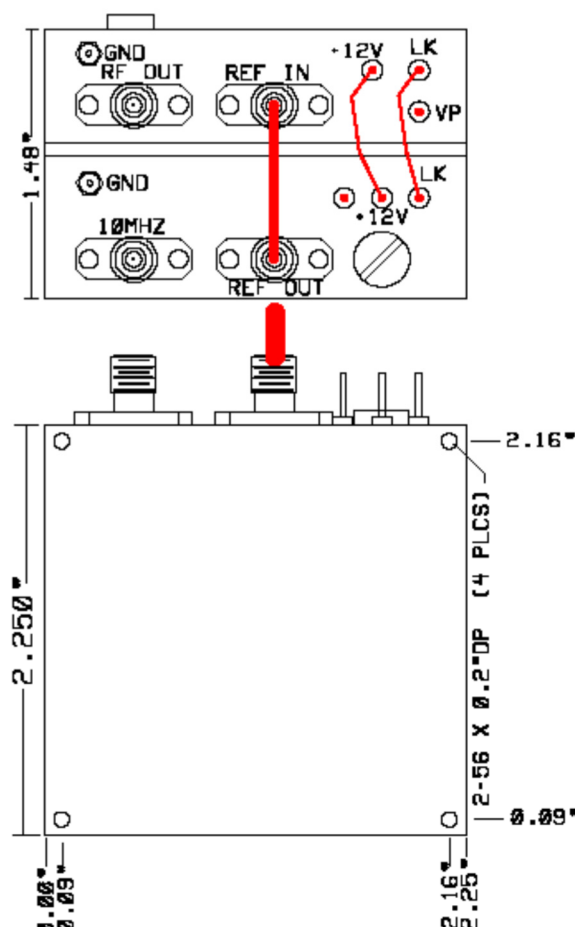
Applications: Dual Loop PLDRs offer ultra low phase noise capability while having ability to lock to an external precision low frequency reference such as 5 or 10 MHz. Dual Loop PLDRs are the ideal choice for high data rate digital communication systems and military and commercial radars. Nexyn units exhibit extremely low micro phonics and ultra low phase hits. Very low phase jitter is observed in fiber optic applications with Nexyn DLPLDRs. Phase noise may be specified to below 1 Hz in special cases. Frequency resolution can be as low as 10 uHz. Offered in sizes as small as our standard PLDR



TYPICAL DL-PLDRO PHASE NOISE



SERIES	NXPLOSDL		
FREQUENCY (GHz)	<1 To 40		
FREQUENCY ACCURACY	COHERENT TO EXT REF		
EXTERNAL REF FREQ (MHz)	10 MHz +/- 2 ppm		
MINIMUM OUTPUT POWER RANGE OVER TEMP)	10 To 23		
POWER VARIATION IN +/- dB (OVER TEMP)	1	1	1.5
HARMONICS (dBc)	-20		
SPURIOUS (dBc)	-80		
LOCK ALARM	OPEN COLLECTOR W 10K PULLUP TO +5V		
TEMPERATURE RANGE (degC)	0 to +60	-20 to +70	-40 to +85
POWER SUPPLY (V)	ANY FIXED VOLTAGE 10 TO 15		
MAX DC CURRENT (mA) @ 25C	400		



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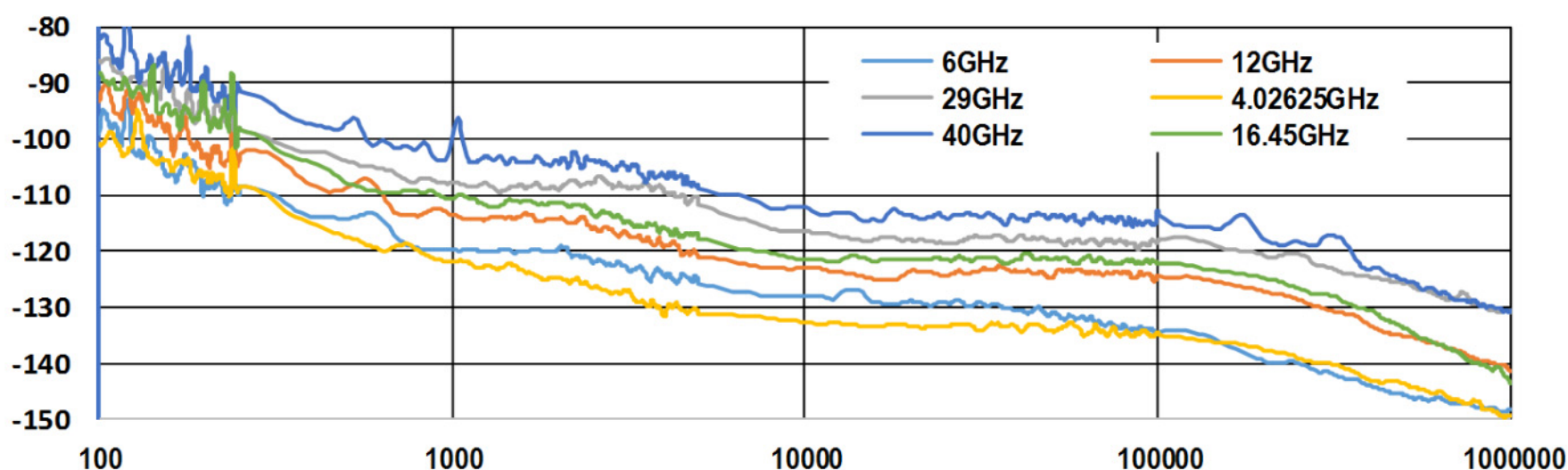
Lowest phase noise on the market.

Internal Reference Phase Locked DRO

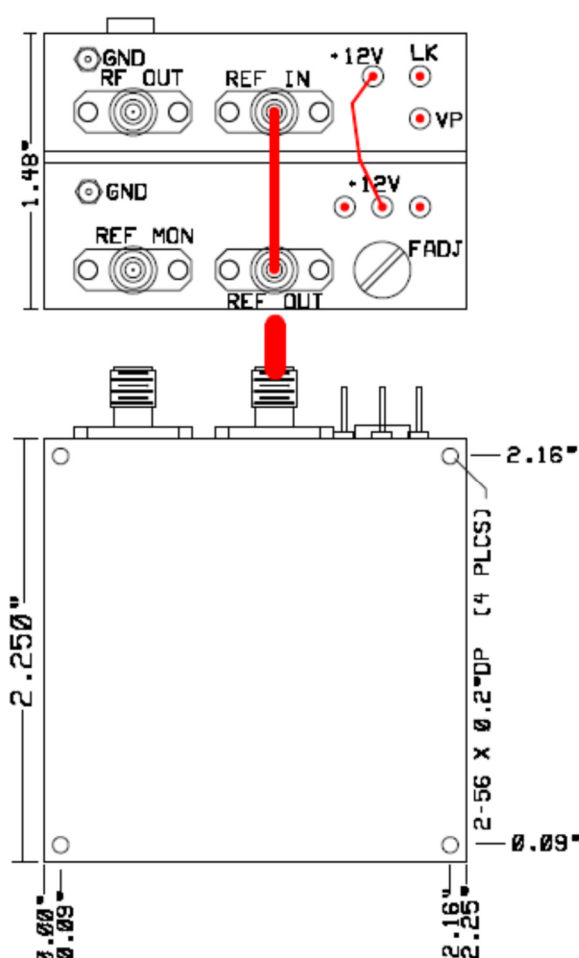
Applications: Dual Loop PLDRs offer ultra low phase noise capability while having ability to lock to an external precision low frequency reference such as 5 or 10 MHz. Dual Loop PLDRs are the ideal choice for high data rate digital communication systems and military and commercial radars. Nexyn units exhibit extremely low micro phonics and ultra low phase hits. Very low phase jitter is observed in fiber optic applications with Nexyn DLPLDRs. Phase noise may be specified to below 1 Hz in special cases. Frequency resolution can be as low as 10 uHz. Offered in sizes as small as our standard PLDR



TYPICAL DL-PLDRO PHASE NOISE



SERIES	NXPLOSI		
FREQUENCY (GHz)	< 1 to 40		
FREQUENCY ACCURACY (+/- ppm, over temp)	0.1	0.5	2.5
MINUM OUTPUT POWER RANGE OVER TEMP)	10 to 23		
POWER VARIATION IN +/- dB (OVER TEMP)	1	1	1.5
HARMONICS (dBc)	-20		
SPURIOUS (dBc)	-80		
LOCK ALARM	OPEN COLLECTOR W 10K PULLUP TO +5V		
TEMPERATURE RANGE (degC)	0 to +60	-20 to +70	-40 to +85
POWER SUPPLY (V)	FIXED VOLTAGE +10 to +15		
MAX DC CURRENT (mA) @ 25C	400		



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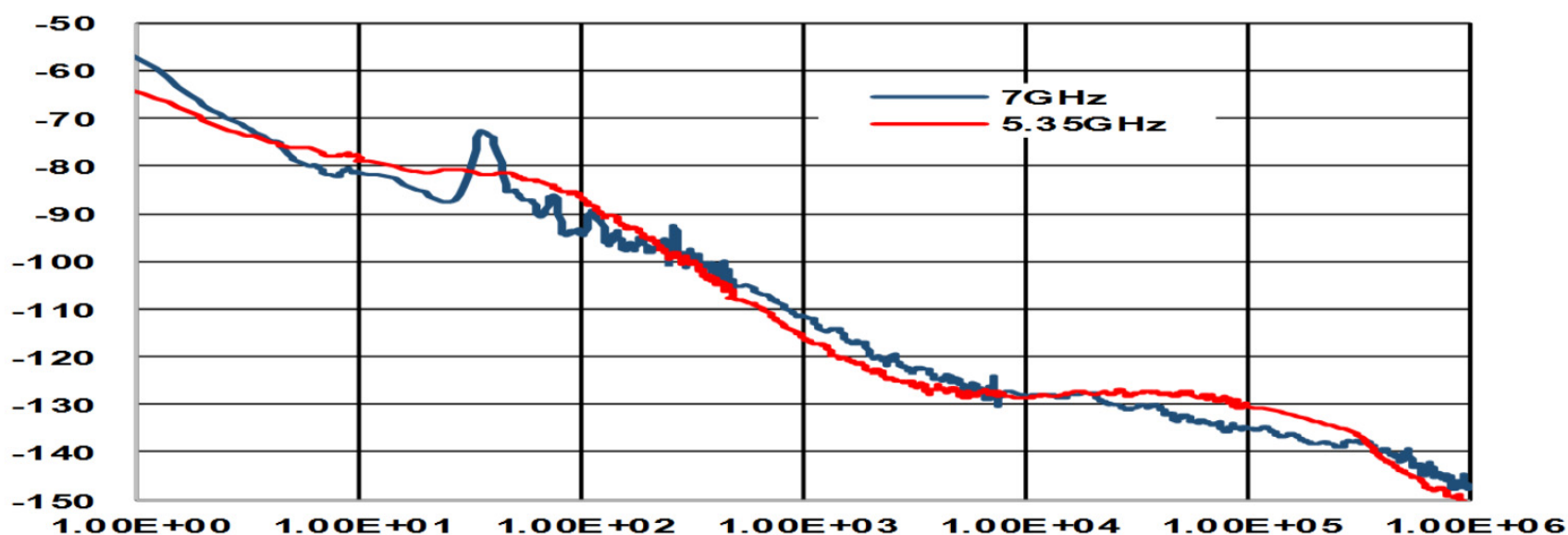
Lowest phase noise on the market.

Internal Reference PLDRO DRO W LOW 1 Hz NOISE

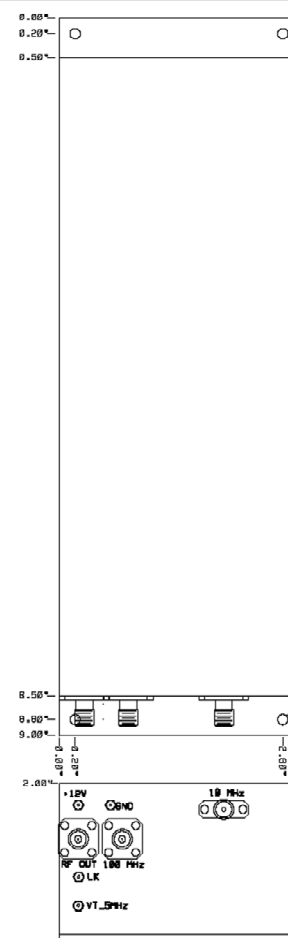
NEXYN offers special purpose PLDROs offering extremely low phase noise at 1 Hz having high port to port isolation outputs at 5, 10, 100 MHz are available. The output frequency can be specified to the nearest 20 microhertz and yet maintain extremely low close in phase noise.



NXPLOI 7 GHz PLDRO W LN TO 1 Hz OFFSET



SERIES	NXPLOI-LN
FREQUENCY (GHz)	< 1 to 40
FREQUENCY ACCURACY (+/- ppm, over temp)	0.0
MINIMUM OUTPUT POWER RANGE OVER TEMP)	10 to 23
POWER VARIATION IN +/- dB (OVER TEMP)	1
HARMONICS (dBc)	-20
SPURIOUS (dBc)	-80
LOCK ALARM	TTL
TEMPERATURE RANGE (degC)	0 to +60
POWER SUPPLY (V)	+12, +15
MAX DC CURRENT (mA) @ 25C	750



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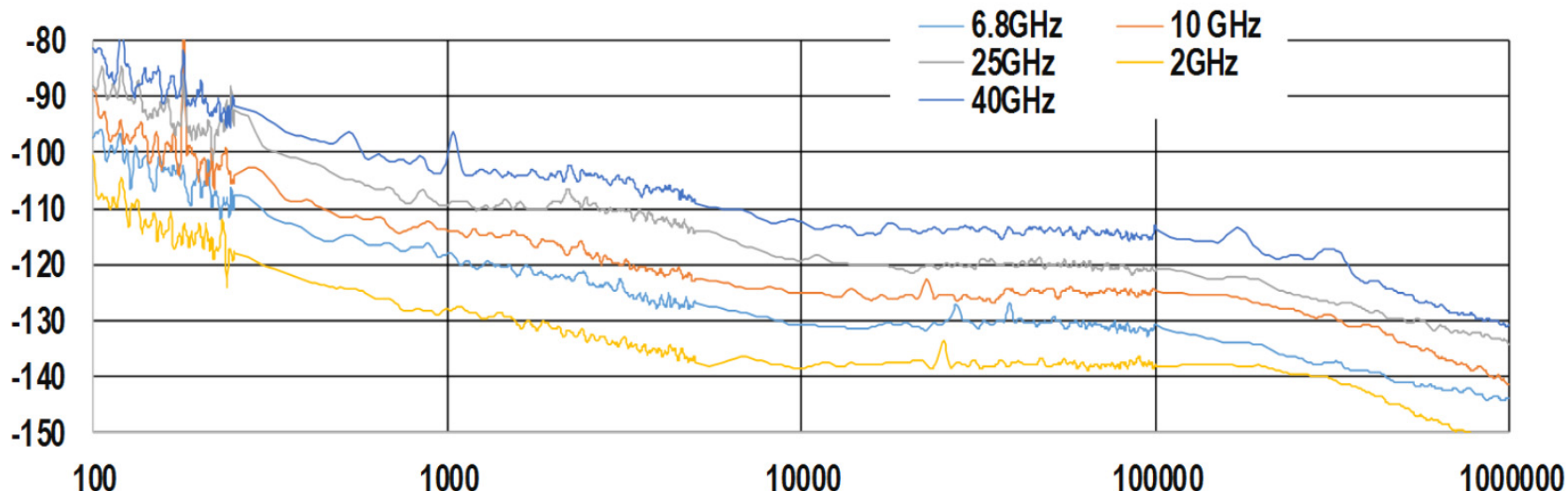
Lowest phase noise on the market.

Phase Locked DRO

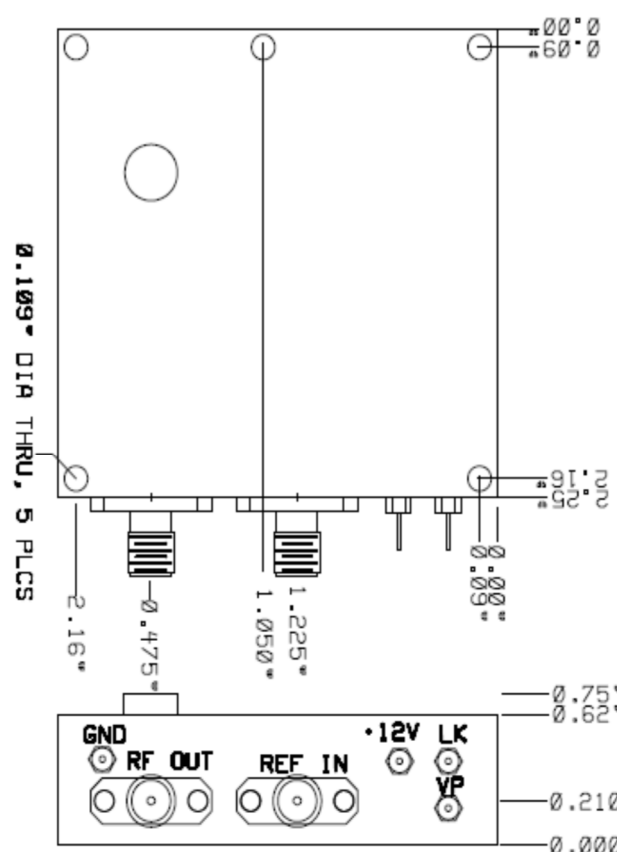
Applications: PLDROs offer the best combination of ultra low phase noise and excellent frequency accuracy when phase locked to a clean stable external crystal reference. PLDROs are ideal choice for commercial and military communication and radar applications, and where low cost, excellent phase noise is essential for system performance requirements. Nexyn PLDROs are available with a harmonic sampler based approach for the ultimate in performance. For cases where the system is cost sensitive and/or a crystal reference >10MHz is unavailable, Nexyn offers PLDROs capable of locking directly to the system 5 or 10MHz reference.



TYPICAL PLDRO PHASE NOISE



SERIES	NXPLOS		
FREQUENCY (GHz)	< 1 to 40		
FREQUENCY ACCURACY	COHERENT TO EXT REF		
EXTERNAL REF FREQ (MHz)	50, 100, 125		
MINIMUM OUTPUT POWER RANGE OVER TEMP)	10 to 23		
POWER VARIATION IN +/- dB (OVER TEMP)	1	1	1.5
HARMONICS (dBc)	-20		
SPURIOUS (dBc)	-80		
LOCK ALARM	OPEN COLLECTOR W 10K PULLUP TO +5V		
TEMPERATURE RANGE (degC)	0 to +60	-20 to +70	-40 to +85
POWER SUPPLY (V)	FIXED VOLTAGE +10 to +15		
MAX DC CURRENT (mA) @ 25C	270		



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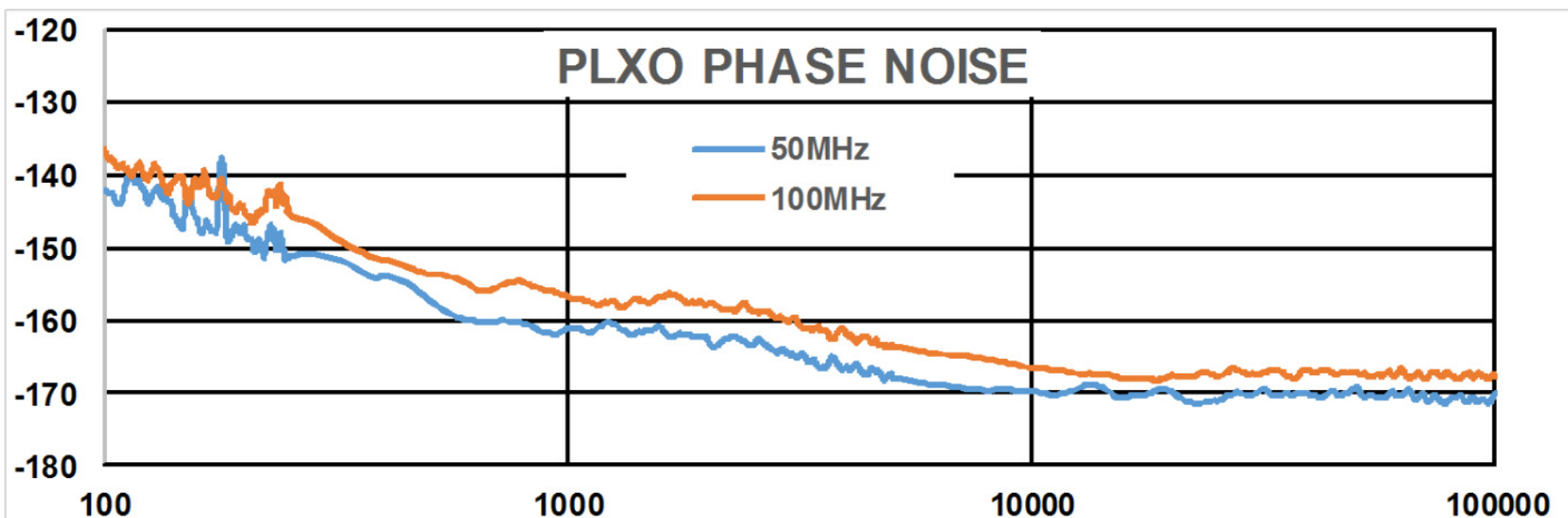
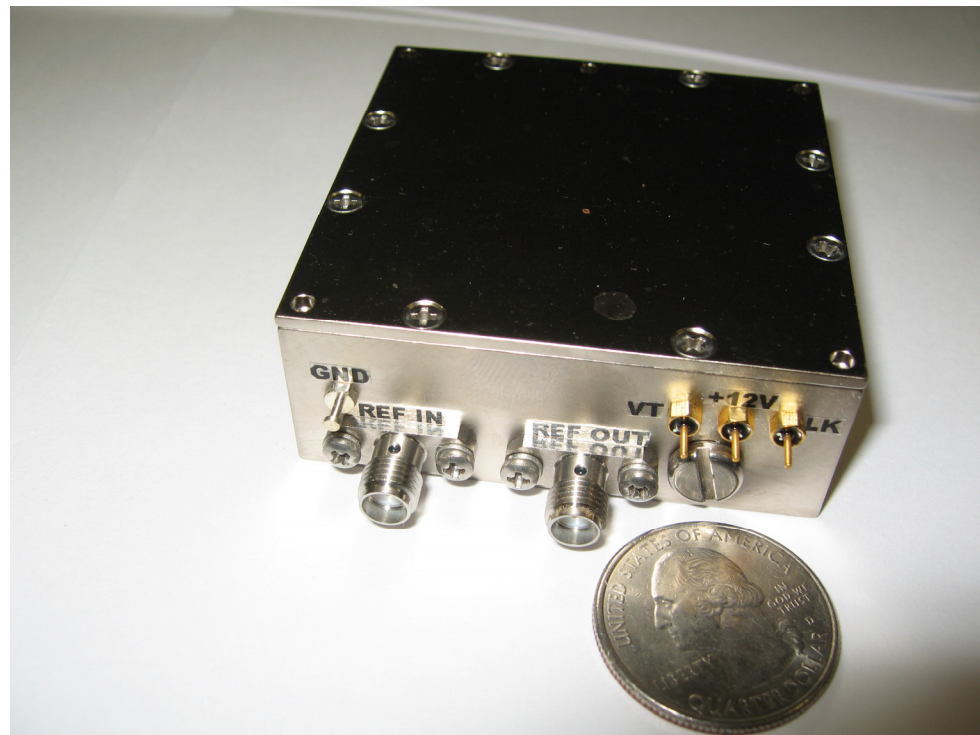
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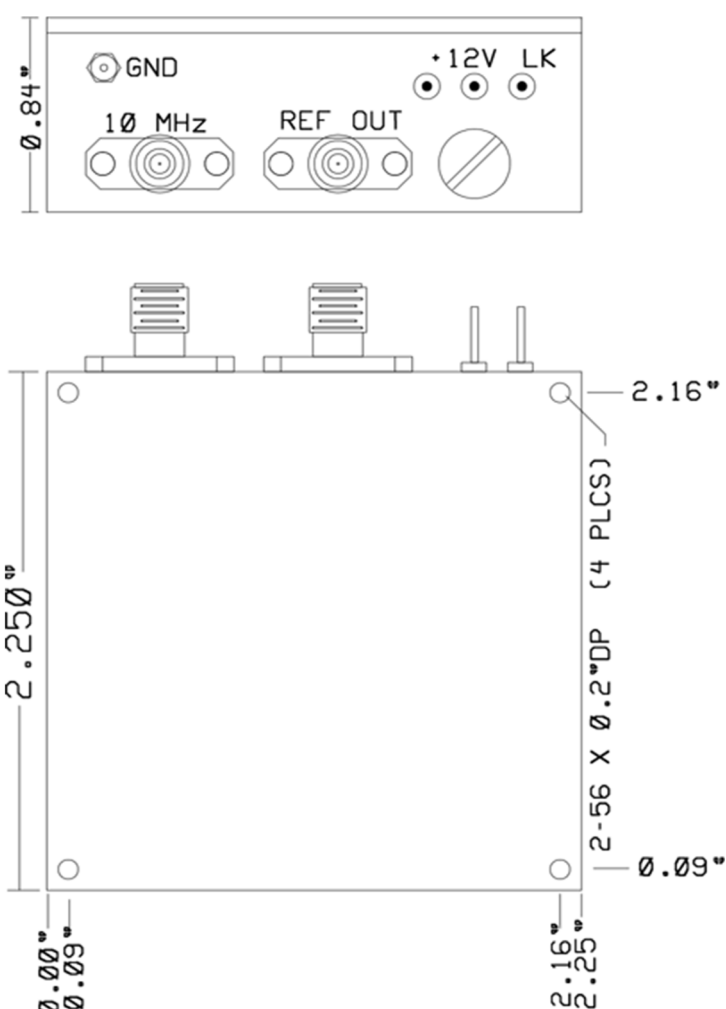
Lowest phase noise on the market.

Phase Locked Crystal Oscillator

Applications: High stability, very low phase noise, phase locked crystal reference source. External Reference Frequency can be anywhere from 0.1 MHz to 100 MHz. To be used as "Add On Reference Module" to all phase locked sources requiring an external reference as an intermediate reference source phase locked to a lower frequency standards having high stability. Mounting hole patterns are compatible with industry standard PLDRO footprint.



SERIES	NXPLXO		
FREQUENCY (MHz)	40 to 125		
EXTERNAL REFERENCE FREQUENCY	10 STD, 5 to 100 AVAIL		
EXTERNAL REFERENCE POWER (dBm)	0 +/- 3		
MINIMUM OUTPUT POWER (OVER TEMP)	10		
POWER VARIATION IN +/- dB (OVER TEMP)	1	1	1.5
HARMONICS (dBc)	-35		
SPURIOUS (dBc)	-80		
TEMPERATURE RANGE (degC)	0 to +60	-20 to +70	-40 to +85
POWER SUPPLY (V)	FIXED VOLTAGE +12 or +15		
MAX DC CURRENT (mA) @ 25C; ADD 300mA at turn-on	180		



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