

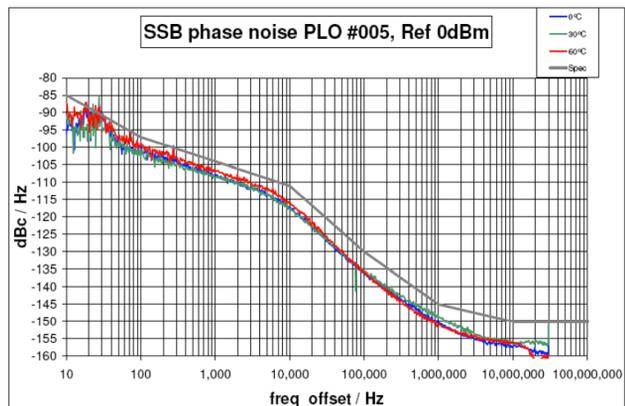
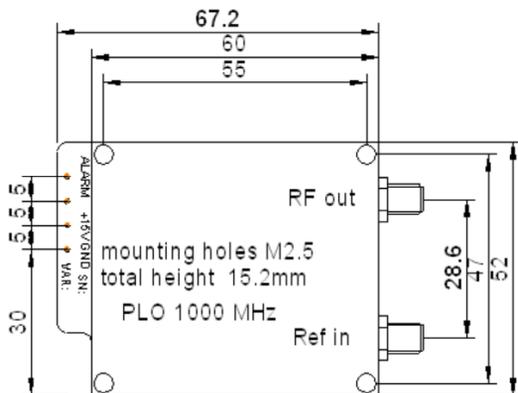
PLO フェーズロック発振器

PLO-CRO-xxxx-EXT シリーズ (外部基準)



- 優れた位相ノイズ
- > +10 dBm
- スプリアス<-70dBc
- 基準周波数サプレッション -80dBc
- 消費電力<2 W
- 入力基準周波数10 MHz
- ジッター-90 fs (30 Hz to 1 MHz offset)

PLO Type:	PLO-CRO-xxxx-EXT		
RF-Output Frequency:	125 ... 2500 MHz		
Phase Noise: (800..1000 MHz)	10 Hz	-85	-87
	100 Hz	-97	-98
	1 kHz	-104	-106
	10 kHz	-111	-115
	100 kHz	-130	-132
	1 MHz	-145	-147
	10 MHz	-150	-155
	max. values in dBc/Hz	typ. values in dBc/Hz	
Spurious Outputs:	$\Delta f = \pm 10$ MHz:	< -70 dBc	
	$\Delta f > 10$ MHz:	< -75 dBc	
	Output harmonics:	< -50 dBc	
Output level:		>10 dBm	
	Connector:	SMA (female)	
Timing Jitter:	30 Hz ... 1 MHz offset	< 100 fs	
Reference Input:	Frequency:	10 MHz sine wave	
	Level:	5 dBm \pm 5 dB	
	Connector:	SMA (female)	
Lock detect output:	TTL, active high		
Temperature Range:	0 °C ... 60 °C operating, -30 °C ... 80 °C storage		
Relative Humidity:	< 95 % non condensing		
Power Input:	15 V \pm 5 %		
Power Consumption:	Max: 2 W		
Power and control connector:	Solder point (through hole 1 mm)		
Dimension and Weight:	67.2 x 52.0 x 15.2 mm ³ (WxHxD), approx. 75 g		



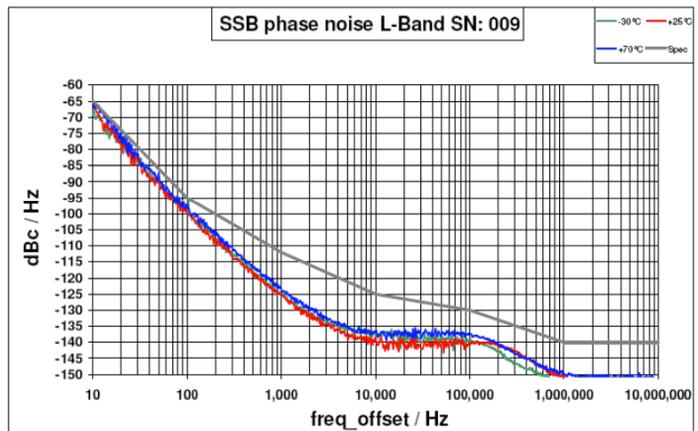
PLO フェーズロック発振器

PLO-CRO-xxxx-TCXO シリーズ (内部TCXO)



- 優れた位相ノイズ
- > +20 dBm
- スプリアス<-90dBc
- 基準周波数サプレッション -90dBc
- 消費電力<5 W
- 動作温度-30 to +70°C

PLO Type:	PLO-CRO-xxxx-TCXO	
RF-Output Frequency:	125 ... 2500 MHz	
Phase Noise: (800..1000 MHz)	10 Hz -65 100 Hz -95 1 kHz -112 10 kHz -125 100 kHz -130 1 MHz -140 10 MHz -150	-66 -97 -123 -136 -137 -150 -152
	max. values in dBc/Hz	typ. values in dBc/Hz
Spurious Outputs:	$\Delta f < 20$ MHz: < -80 dBc $\Delta f > 20$ MHz: < -85 dBc Output harmonics: < -60 dBc	
Output level:	Connector:	+20 dBm \pm 2 dB SMA (female)
Frequency stability:	-20°C ... +70°C and aging	< \pm 10 ppm
Lock detect output:	TTL, active high	
Temperature Range:	-30 °C ... +70 °C operating, -40 °C ... 80 °C storage	
Relative Humidity:	< 95 % non condensing	
Power Input:	15 V \pm 5%	
Power Consumption:	Max: 5 W	
Power and control connector:	Feed-through-capacitor	
Dimension and Weight:	68.6 x 57.1 x 15.0 mm ³ (WxHxD), approx. 120 g	



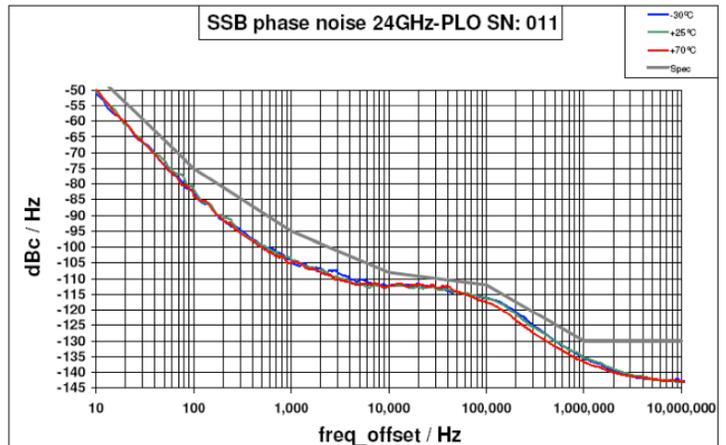
PLO フェーズロック発振器

PLO-CRO-xxxx-OCXO シリーズ (内部OCXO)



- 優れた位相ノイズ
- > +21 dBm
- スプリアス<-100dBc
- 基準周波数サプレッション -100dBc
- 動作温度 -30 to +70°C
- 温度安定度<10ppm

PLO Type:	PLO-CRO-xx.x-OCXO	
RF-Output Frequency:	10.0 ... 26.5 GHz	
Phase Noise: (800..1000 MHz)	10 Hz -45 100 Hz -75 1 kHz -95 10 kHz -108 100 kHz -112 1 MHz -130 10 MHz -140	-50 -80 -104 -112 -116 -135 -142
	max. values in dBc/Hz	typ. values in dBc/Hz
Spurious Outputs:	$\Delta f < 20$ MHz: < -90 dBc $\Delta f > 20$ MHz: < -90 dBc Output harmonics: < -60 dBc	
Output level:	Connector:	+21 dBm \pm 2 dB K (female)
Frequency stability:	-20°C ... +70°C and aging	< \pm 10 ppm
Lock detect output:	Alarm contact, active open	
Temperature Range:	-30 °C ... +70 °C operating, -40 °C ... 80 °C storage	
Relative Humidity:	< 95 % non condensing	
Power Input:	\pm 15 V \pm 5%, <950 mA @ +15 V (steady state), <1300 mA @ +15 V (warm-up), <50 mA @ -15V	
Power Consumption:	Max: 15 W steady state, <20 W warm-up	
Power and control connector:	Feed-through-capacitor	
Dimension and Weight:	105.4 x 69.0 x 31.2 mm ³ (WxHxD), approx. 325 g	



PLO フェーズロック発振器

PLO-CRO-xxxx.x-XO シリーズ (内部 Xtal)



- 優れた位相ノイズ
- > +10 dBm
- 優れたスプリアス
- 周波数安定度<100ppm
- 動作温度範囲-30 to +70°C

PLO Type:	PLO-CRO-xxxx.x-XO	
RF-Output Frequency:	1200.0 ... 9999.9 MHz	
Phase Noise: (3691 MHz)	10 Hz -55 100 Hz -85 1 kHz -110 10 kHz -117 100 kHz -121 1 MHz -125 10 MHz -125	-60 -90 -115 -124 -127 -144 -148
	max. values in dBc/Hz	typ. values in dBc/Hz
Spurious Outputs:	$\Delta f < 10$ MHz: < -60 dBc $\Delta f > 10$ MHz: < -70 dBc Output harmonics: < -50 dBc	
Output level:	Connector:	+10 dBm \pm 2 dB SMA (female)
Frequency stability:	-20°C ... +70°C and aging	< \pm 100 ppm
Lock detect output:	TTL, active high	
Temperature Range:	-30 °C ... +70 °C operating, -40 °C ... 80 °C storage	
Relative Humidity:	< 95 % non condensing	
Power Input:	7 V \pm 5%, <430 mA	
Power Consumption:	max: 3 W	
Power and control connector:	14-Pin-header, male	
Dimension and Weight:	130.2 x 52.1 x 15.2 mm ³ (WxHxD), approx. 135 g	

