

TCXO Series

10MHz TCXO OSCILLATOR

Features

- Frequency: 10MHz
- Temp Stability: $\pm 2.5\text{ppm}$
- Output: CMOS
- Phase Noise: -125dBc/Hz @ 100Hz offset
- Power Supply: +12V
- Temperature: -30°C to $+75^\circ\text{C}$
- SMA Female Connector

Picture



Description

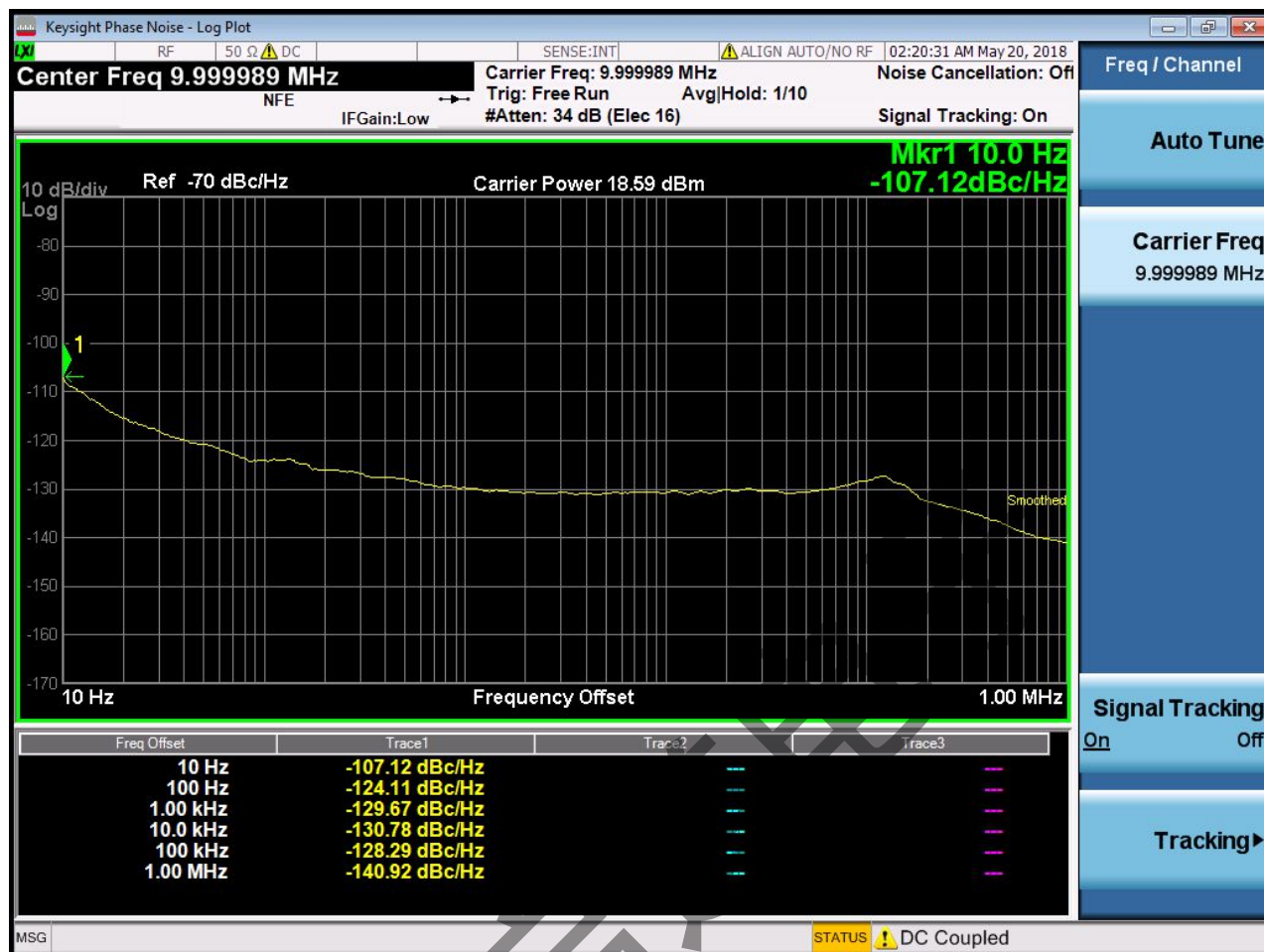
TCXO-10M is a Temperature Compensated Crystal Oscillator (TCXO) module output frequency at 10MHz.

Electrical Specifications @ $+25^\circ\text{C}$, $Z_{\text{out}} = 50\ \Omega$, DC Supply = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency	MHz	10.00000		
Phase Noise	dBc/Hz	-90dBc@10Hz	-100dBc@10Hz	
	dBc/Hz	-115dBc@100Hz	-125dBc@100Hz	
	dBc/Hz	-120dBc@1KHz	-130dBc@1KHz	
	dBc/Hz	-120dBc@10KHz	-130dBc@10KHz	
	dBc/Hz	-130dBc@100KHz	-140dBc@1MHz	
Temperature Stability		± 2.5ppm		
Aging		± 1ppm max per year		
Output Format		CMOS		
HIGH Level Output Voltage	V	4.9		
LOW Level Output Voltage	V			0.1
Output Voltage Swing	Vp-p	4.8	5.0	
Start-Up Time	mS	10		
Supply Voltage	V	+9	+12	+15
Supply Current R _L = High Z	mA		10	15
R _L = 50 Ω (AC Couple)	mA		32	40

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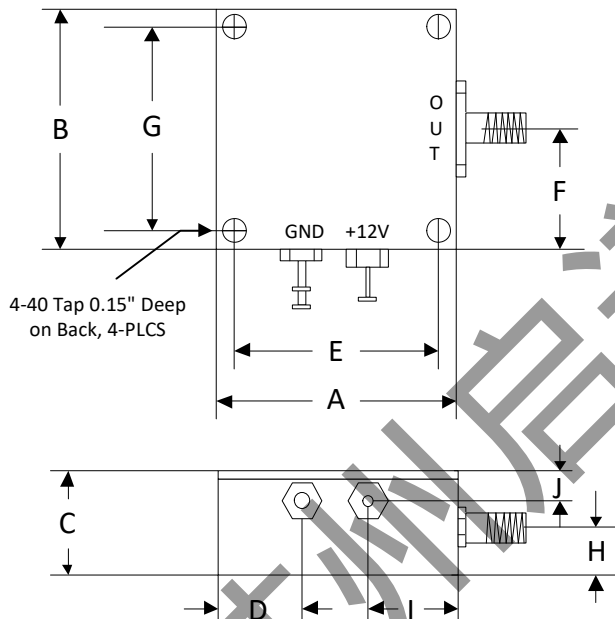
Absolute Maximum Ratings

Parameter	Absolute Maximum
DC Supply Voltage	+25V
Operating Temperature	-30 °C to +75 °C
Storage Temperature	-55 °C to +100 °C

ESD Sensitive Material



Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76