

## 20MHz TCXO OSCILLATOR

### Features

- Frequency: 20MHz
- Temp Stability:  $\pm 2.5$ ppm
- Output: CMOS
- Phase Noise: -125dBc/Hz@ 100Hz offset
- Power Supply: +12V
- Temperature: -30 °C to +75 °C
- SMA Female Connector

### Description

HD32592 is a Temperature Compensated Crystal Oscillator (TCXO) module output frequency at 20MHz.

### Picture



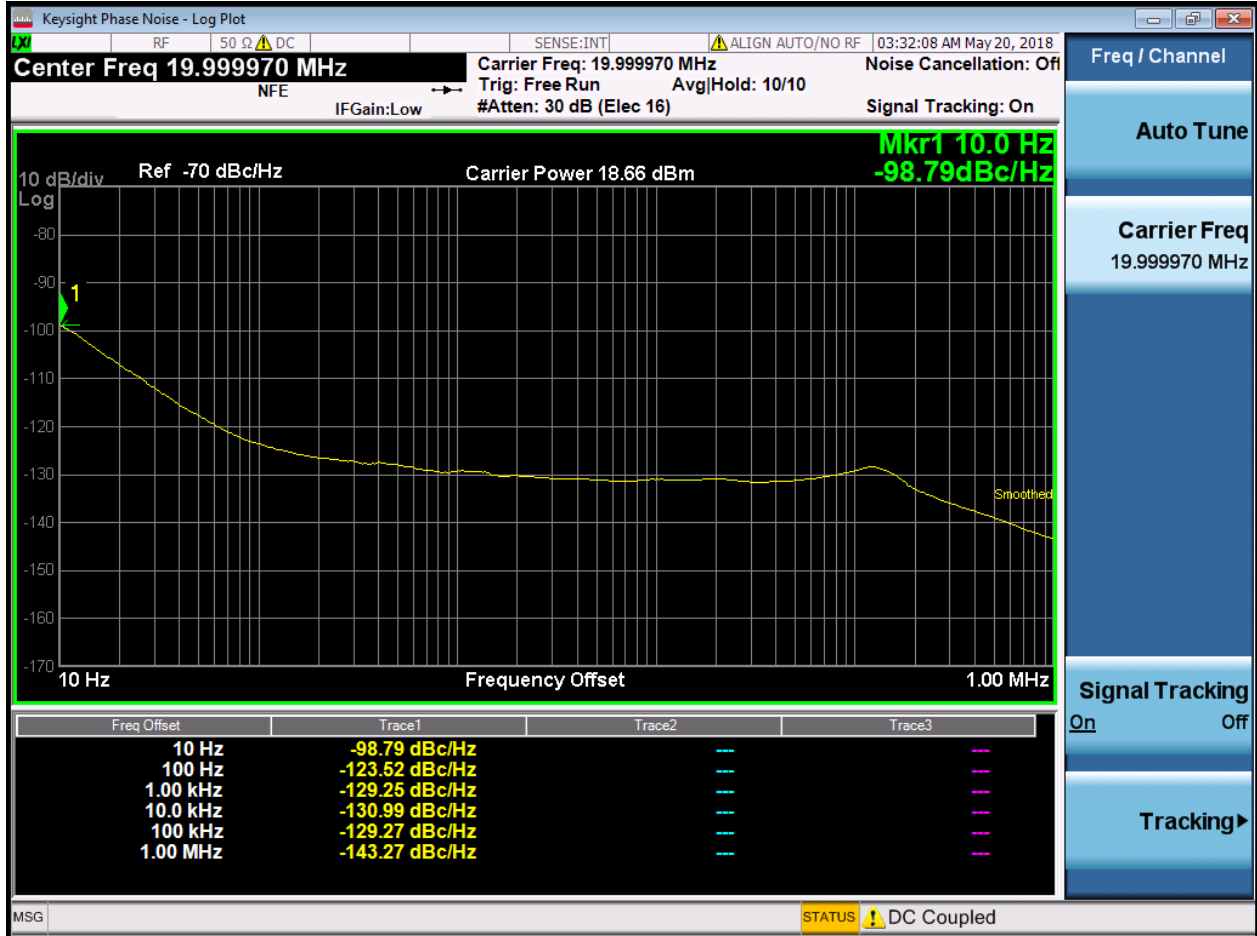
### Electrical Specifications @ +25 °C, $Z_{out} = 50 \Omega$ , DC Supply = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency	MHz	20.00000		
Phase Noise	dBc/Hz	-85dBc@10Hz	-95dBc@10Hz	
	dBc/Hz	-115dBc@100Hz	-125dBc@100Hz	
	dBc/Hz	-120dBc@1KHz	-130dBc@1KHz	
	dBc/Hz	-120dBc@10KHz	-130dBc@10KHz	
	dBc/Hz	-130dBc@100KHz	-140dBc@100KHz	
Temperature Stability		$\pm 2.5$ ppm		
Aging		$\pm 1$ ppm 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

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Supply Current	$R_L = \text{High } Z$	mA		10	15
	$R_L = 50 \Omega$	mA		32	40

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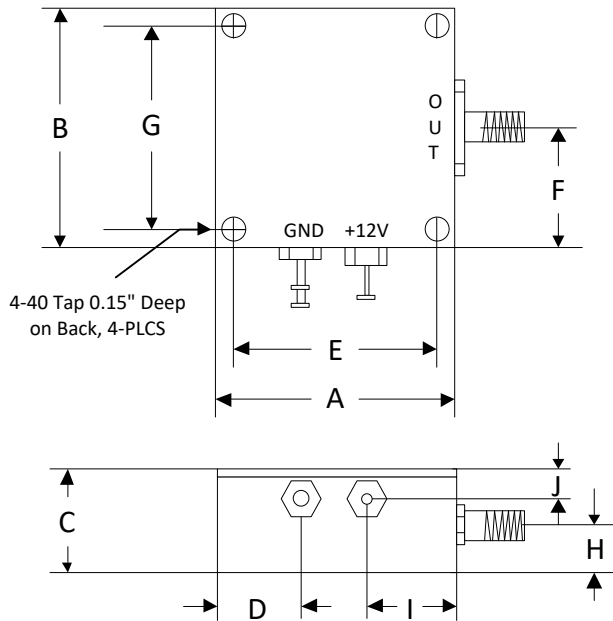
### Absolute Maximum Ratings

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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76