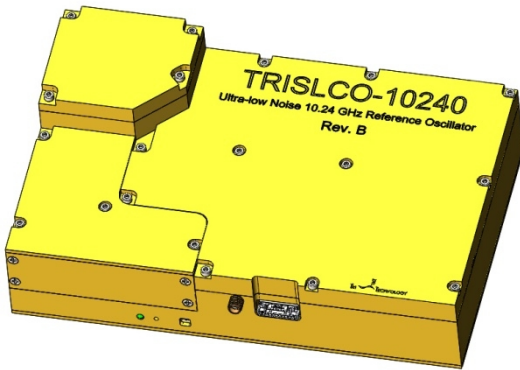


TRISLCO-10240

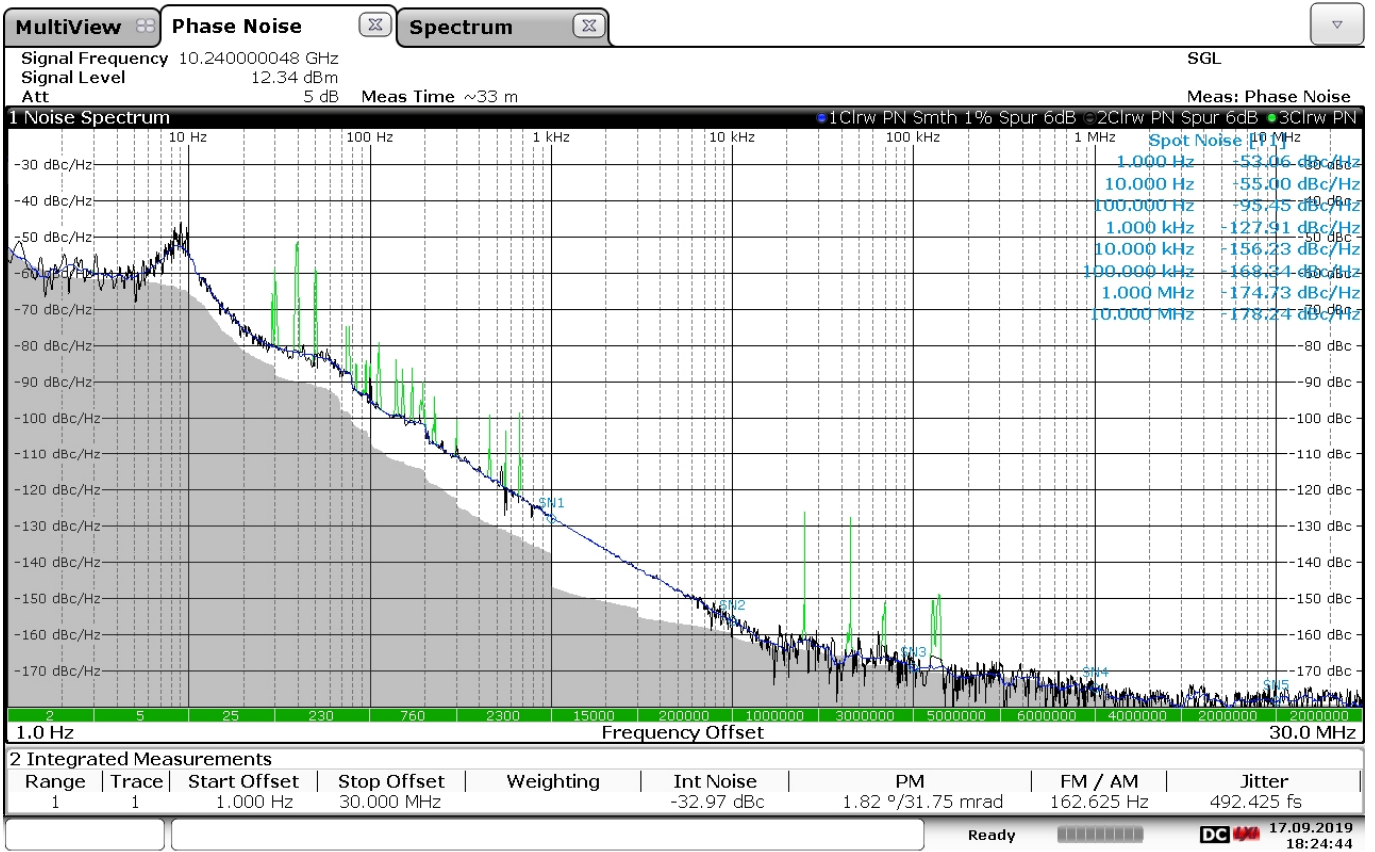


The TRISLCO-10240 is a high performance microwave oscillator which provides a low phase noise 10.24 GHz reference signal locked to a built-in high stability 10 MHz OCXO. The oscillator is built around an oven controlled high Q sapphire resonator with an ultra-low phase noise HBT sustaining amplifier. The oscillator provides more than +10 dBm of output power, comes in a rugged and relatively compact form factor and operates over the frequency range of 0...+40°C. It does require a heat sink or an external cooler to achieve and maintain a thermal balance.

Parameter Description	Parameter Value		
Operating Frequency	10.24 GHz		
Warm-up time (to achieve the frequency lock)	<30 minutes		
Frequency Stability after Locking to 10 MHz Internal OCXO	$\pm 1 \times 10^{-11}$		
Aging	$\pm 1 \times 10^{-8}/\text{year}$		
Output Power	+10 dBm (+13dBm typical)		
Output VSWR	2.00 (<1.5 typical)		
Harmonics	<-30 dBc		
Discrete Spurious Tones	<-30 - 20log (Fm) dBc; Fm <500 kHz		
Phase Noise	Offset Fm	Guaranteed Value	Typical Value
	1 Hz	-40 dBc/Hz	-50 dBc/Hz
	10 Hz	-50 dBc/Hz	-60 dBc/Hz
	100 Hz	-90 dBc/Hz	-95 dBc/Hz
	1 kHz	-120 dBc/Hz	-125 dBc/Hz
	10 kHz	-150 dBc/Hz	-155 dBc/Hz
	100 kHz	-165 dBc/Hz	-170 dBc/Hz
1 MHz	-170 dBc/Hz	-175 dBc/Hz	
Power Supply Voltage (Volts)	+12 V		
Current Consumption (mA)	2500 mA (during warm-up) 1500 mA (after warm-up)		
Dimensions	Milled Aluminum Case 215 mm x 130 mm x 60 mm		

TYPICAL PERFORMANCE GRAPHS.

TRISLCO-10240 Typical Phase Noise



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