## **Specification**

							Spec.	
Code :							Rev 25.02.10	
#	OCXO	C. ma	Condition	Value			Unit	Included in the
π	Specification	Sym.	Condition	Min.	Тур.	Max.	Onit	test data
1.1	Nominal Frequency	$f_0$			10.000000		MHz	
1.2	Initial tolerance	$(f - f_0)/f_0$	at +25°C, $V_c = V_{c0}$	-0.1		0.1	ppm	+
RF output								
2.1	Wave form				Sine-wave			
2.2	Level	L		+6			dBm	+
2.3	Load	R <sub>L</sub>		45	50	55	Ohm	
2.4	Harmonics level					-25	dBc	
	Frequency control							
3.1	Input resistance	R <sub>in</sub>			11		kΩ	
3.2	Control voltage range	Vc		0		4.2	V	
3.3	Preset control voltage	V <sub>c0</sub>	disconnected Vc pin	1.8	2.1	2.4	V	
3.4	Slope				Positive			
3.5		(f <sub>L</sub> - f)/f	V <sub>c</sub> =0 V			-0.35	ppm	+
	Pull range	(f-f)/f	V <sub>c</sub> =V <sub>c0</sub>		0		ppm	
3.6		(f <sub>H</sub> - f)/f	$V_c = V_{ref}$	0.35			ppm	+
3.7	Reference voltage	V <sub>ref</sub>		4.1	4.2	4.3	V	
3.8	Out. resistance of V <sub>ref</sub>				91		Ohm	
	Power supply							
4.1	Voltage	Vcc		4.75	5	5.25	V	
4.2	Warm-up current		Vcc=5V			850	mA	
4.3	Continuous current		at +25°C, Vcc=5V, still air			250	mA	
4.4	Warm up time?	+	to $\Delta f/f=1e-7$ , at +25°C,			190	522	
	warm-up time	Lup	ref. to 30 min.			180	sec.	
	Frequency stability							
5.1	vs. temperature		ref 25°C			±0.5	ppb	+
5.2	vs. supply voltage		ref Vcc typ.			±0.3	ppb	
6.1	SSB Phase Noise		at 1 Hz offset		-90		dBc/Hz	
			at 10 Hz offset		-123			
			at 100 Hz offset		-148			1.84
			at 1 kHz offset		-155			+*
			at 10 kHz offset		-160			
			at 100 kHz offset		-160			
7.1	Aging per day		after 30 days of operation			±0.2	ppb	
	first year	<u> </u>				$\pm 30$	ppb	
* 10% of production LOT for quantities greater than or equal to 20 pcs								
Maxi	mum ratings, environmental, n	hechanical co	nditions.					
Power	r voltage	-0.5 to 5.5 V						
Contr	ol voltage	-1.0 TO 9.0 V						
Opera	ting temperature range	-40°C to +	-40°C to 100°C					
Storag	ge temperature range	-60°C to +						
Maghanianl shock		Non-conde	Non-condensing 95%					
Vibration		Per MIL-S	Per MIL-51D-202, 300, 11IIIS					
Viblation Soldering conditions		260°C 10°						
Solue	ing conditions		<b>)</b>					

OCXO3306 Miniature Highly Stable Oven

## **Physical Dimensions & Pin Connections**



