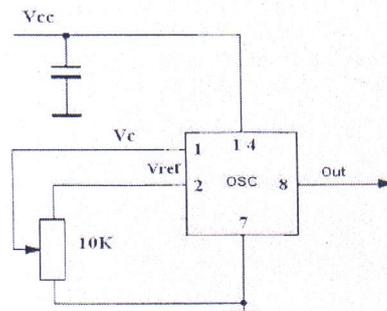


#	OCXO Specification	Sym.	Condition	Value			Unit	Included in the test data
				Min.	Typ.	Max.		
1.1	Nominal Frequency	$f_0$			100.000000		MHz	
1.2	Initial tolerance	$(f - f_0)/f_0$	at +25°C, $V_c = V_{c0}$	-0.2		0.2	ppm	+
<b>RF output</b>								
2.1	Wave form				Sine-wave			
2.2	Level	$L_{S}$		+6	+8		dBm	+
2.3	Harmonics level	$L_{H}$				-25	dBc	
2.4	Load	$R_L$		45	50	55	Ohm	
<b>Frequency control</b>								
3.1	Input impedance	$R_{in}$			11		kOhm	
					5		pF	
3.2	Voltage range	$V_C$		0		4.2	V	
3.3	Preset control voltage	$V_{c0}$	disconnected $V_c$ pin	2.0	2.1	2.2	V	
3.4	Slope				positive			
3.5	Frequency turning range	$(f_{L} - f)/f$	$V_c = 0$ V			-1	ppm	+
		$(f - f)/f$	$V_c = V_{c0}$			0	ppm	
3.6		$(f_{H} - f)/f$	$V_c = V_{ref}$	1			ppm	+
3.7	Reference voltage	$V_{ref}$		4.1	4.2	4.3	V	
3.8	Output resistance of Vref				91		Ohm	
<b>Power supply</b>								
4.1	Input Voltage	$V_{CC}$		4.75	5.0	5.25	V	
4.2	Warm-up current	$I_{SR}$	$V_{CC} = 5$ V	120		220	mA	
4.3	Continuous current	$I_{CC}$	at +25°C, $V_{CC} = 5$ V			50	mA	
4.4	Frequency warm-up time	$\tau_F$	to $\Delta f/f = 1e-7$ at +25°C			90	s	
<b>Frequency stability</b>								
5.1	vs. temperature	$df/dT$	ref 25°C			±50	ppb	+
5.2	vs. supply voltage	$df/dV$	ref $V_{CC}$ typ.		±3	±5	ppb	
5.3	vs. load	$df/dZ$	5 % change			±5	ppb	
6.1	SSB phase noise (static)	$L_{PH}$	1 Hz			-55	dBc/Hz	+
			10 Hz			-95		
			100 Hz			-125		
			1 kHz			-155		
			10 kHz			-165		
	100 kHz			-165				
7.1	Aging	per day	$df/day$	after 30 days of operation		±3	ppb	
		first year	$df/year$			±0.3	ppm	
<b>Maximum ratings, environmental, mechanical conditions.</b>								
Power voltage		-0.5 to 6.0V						
Control voltage		-1.0 to 9.0 V						
Operating temperature range		-40°C to +85°C						
Storage temperature range		-60°C to +85°C						
Humidity		Non-condensing 95%						
Mechanical Shock		Per MIL-STD-202, 30G, 11ms						
Vibration		Per MIL-STD-202, 5G to 2000Hz						
Soldering Conditions		Hand solder only – not reflow compatible 260°C 10s (on pins)						
Washing Conditions		Washing with water or alcohol based detergent allowed only with final enough drying stage						

## Schematic connections



## Physical dimensions

