

FREQUENCY



DOC2930

Oven Controlled Crystal Oscillator for Test and Measurement applications (rev-W6)

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▣ Specifications

Ref	Parameters	Unit	Min.	Nom.	Max.	Comment
1	Nominal frequency (FO)	MHz		100		±300ppb at 25C°
2	Temperature range					
2.1	Operating G1	Deg. C	0	+25	+70	
2.2	Operating G2	Deg. C	-20	+25	+70	
3	Power supply	V	11.4	12	12.6	12V±5%
4	Consumption					
4.1	VS Temperature range	C°		25		
4.2	Max values at steady state	mA		150		
4.3	Max values at warming	mA			300	
5	Frequency control voltage	V				
5.1	Frequency pulling range	± ppm	3.5			
5.2	Voltage control	V	0		5	
5.3	Input impedance	KOhm	10			
5.4	Linearity	%			10	Least squares straight
6	Output signal Waveform					
6.1	Level	dBm	1	2	3	
6.2	Load	Ohm	45	50	55	50 Ohm ±10%
7	Frequency stability					
7.1	VS Temperature Range G1	ppb			300	Peak to peak
7.2	VS Temperature Range G2	ppb			500	Peak to peak
8	Ageing					
	Medium/long term stability		1day	1month	1year	
		± ppb			1000	After continuous operating for 30 days
9	Phase Noise at static conditions					
9.1	Value	10 Hz		-85		
9.2	Value	100 Hz		-115		
9.3	Value	1 kHz		-140		
9.4	Value	10 kHz		-155		
10	Mechanical conditions					
10.1	Shocks	IEC 68-2-27: Test Ea 50g, 11 ms				
10.2	Random vibrations	IEC 68-2-6: Test Fc 5g 10-150Hz				
11.1	Package reference /pin out	94			See last page	
11.2	Package type	BO94				
11.3	Maximum package height	10.2			mm	
11.4	Label	YYWW /Ser. Nb F0 =100Mhz DOC2930				
11.5	Pin out	1. Control voltage Vc;.NC; 3.Supply Voltage Vcc; 4.RF Output; 5. GDN				

