

FREQUENCY



# DOC4830

Oven Controlled Crystal Oscillator for Switching applications (rev-W3)

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## Oven Controlled Crystal Oscillator for Switching applications (rev-W3)

July 27, 2006

### ▣ Specifications

Ref	Parameters	Unit	Min.	Nom.	Max.	Comment
<b>1</b>	<b>Nominal frequency (FO)</b>	MHz		8.192		±1 ppm at 25C° and Vc=2.5 V
<b>2</b>	<b>Temperature range</b>					
2.1	Operating G1	Deg. C	0	+25	+70	
2.2	Storage	Deg. C	-40		+85	
<b>3</b>	<b>Power supply</b>	V	11.4	12	12.6	Vcc±5%
<b>4</b>	<b>Consumption</b>					
4.1	Max values at steady state	W			1.8	at 25C°
4.2	Max values at warming up	W			5	at 25C°
<b>5</b>	<b>Frequency control voltage</b>	V				
5.1	Frequency pulling range	± ppm	7.6			Ref. to nominal frequency
5.2	Voltage control	V	0.25		4.75	Positive slope
5.3	Input impedance	KOhm	10			
<b>6</b>	<b>Output signal Waveform</b>					
6.1	Level	dBm				0<Vol(V)<0.4; 2.4<Voh(V)<5.5
6.2	Harmonics/ Duty cycle	%	40		60	
6.3	Sub harmonics/Rise time	ns			10	
6.4	Non harmonics/Fall time	ns			10	
6.5	Load	pF		15		// 200 KOhm
<b>7</b>	<b>Frequency stability</b>					
7.1	VS Temperature Range G1	± ppb			18	Ref. to frequency at 25C°
7.2	VS Power supply variation	± ppb			5	Vcc ±5%
7.3	VS Warm Up time	± ppb	5mn	30min	1h	Ref. to frequency 1h after power ON at 25C°
				100		
<b>8</b>	<b>Ageing</b>		1day	1month	20years	After continuous operating for 30 days
	Medium/long term stability	± ppb	0.5		3000	
<b>9</b>	<b>Mechanical conditions</b>					
9.1	Shocks	IEC 68-2-27: Test Ea 50g, 11 ms				
9.2	Sine vibrations	IEC 68-2-6: Test Fc 5g 10-150Hz				
<b>10.1</b>	<b>Package reference /pin out</b>	45-18			See last page	
<b>10.2</b>	<b>Package type</b>	BO3-34				
<b>10.3</b>	<b>Maximum package height</b>	20			mm	
<b>10.4</b>	<b>Label</b>	YYWW /Ser. Nb F0 =8.192 Mhz DOC4830				
<b>10.5</b>	<b>Pin out</b>	1. Control voltage Vc; 2.NC; 3.Supply Voltage Vcc; 4. RF Output; 5. GDN/Case				

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## Parameters

### BOTTOM VIEW

