

FREQUENCY



# **VLB2080 2080-2170 MHz**

Voltage controlled oscillator for Telecom applications  
(rev-W3)

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# VLB2080 2080-2170 MHz

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June 19, 2006

## ▣ Specifications

Ref	Parameters	Unit	Min.	Typ.	Max.	Comment		
<b>1</b>	<b>Frequency range</b>	MHz						
1.1	Lower frequency (Fl)	MHz			2080	@Vt=	0.5	V
1.2	Upper frequency (Fu)	MHz	2170			@Vt=	4.5	V
<b>2</b>	<b>Temperature range</b>							
2.1	Operating	Deg. C	-35		+85			
<b>3</b>	<b>Output</b>							
3.1	Output Power	dBm	-3	0	3			
3.2	Z out	Ohm		50		Nominal		
<b>4</b>	<b>Control voltage</b>							
4.1	Range	Volt	0.5		4.5			
4.2	Sensitivity (Kvco)	MHz/V	20		45			
<b>5</b>	<b>Input Impedance</b>							
5.1	Capacitance	pF		50	100			
5.2	Resistance	Ohm	Inf.					
<b>6</b>	<b>Harmonics</b>							
6.1	Harmonics	dBc		-20	-15			
<b>7</b>	<b>Spurious</b>	dBc						
<b>8</b>	<b>SSB Phase Noise</b>							
8.1	Offset @ 1 kHz	dBc/Hz		-80	-70			
8.2	Offset @ 10 kHz	dBc/Hz		-105	-100			
8.3	Offset @ 100 kHz	dBc/Hz		-125	-120			
8.4	Offset @ 1 MHz	dBc/Hz		-145	-140			
<b>9</b>	<b>Pushing</b>							
9.1	Pushing	MHz/V			5			
9.2	Pulling VSWR 1.5:1	MHz			5	Peak to peak value (all phases)		
<b>10</b>	<b>Power Supply</b>							
10.1	Voltage	Volt	4.75	5	5.25			
10.2	Current	mA			30			
<b>11</b>	<b>Package</b>					SM1		

## ▣ Marking

Manufacturer's Name: Yes  
 Part Number: VLB2080  
 Manufacturing date code: Year and Week

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