



VLB5825 5825-5925 MHz

Voltage controlled oscillator for Radio Link TX applications
(rev-W0)

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March 03, 2006

Specifications

Ref	Parameters			Unit	Min.	Typ.	Max.	Comment		
1	Frequency range			MHz						
1.1	Lower frequency (F _L)			MHz			5825	@V _t =	0.5	V
1.2	Upper frequency (F _u)			MHz	5925			@V _t =	4.5	V
2	Temperature range									
2.1	Operating			Deg. C	-40		+75			
3	Output									
3.1	Power			dBm	1	3	5			
3.2	Z out			Ohm		50		Nominal		
4	Control voltage									
4.1	Range			Volt	0.5		4.5	Note 1		
4.2	Sensitivity			MHz/V	27	35	43	At any frequency between F _L &F _U		
4.3	Instantaneous Slope Temperature Drift			%	-15		15	For each V _{tune} value in the frequency range		
5	Harmonics			dBc			-15			
6	Spurious			dBc			-90			
7	SSB Phase Noise									
7.1	Offset	@	10 KHz	dBc/Hz			-94			
7.2	Offset	@	100kHz	dBc/Hz			-114			
7.3	Offset	@	1000kHz	dBc/Hz			-134			
7.4	Phase Hits over temperature range						1000			
8	Pushing									
8.1	Pushing			MHz/V			5	V _{cc} ±5%		
8.2	Pulling 12 dBr			MHz			15	Peak to peak value (all phases)		
9	Power Supply									
9.1	Voltage			Volt	4.75	5.0	5.25	±0.4V		
9.2	Current			mA			35			
10	Package			SM1						

Note 1 : The VCO must oscillate for these 2 control voltages.

Marking

Manufacturer's Name: Yes
Part Number: VLB5825
Manufacturing date code: Year and Week

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Parameters

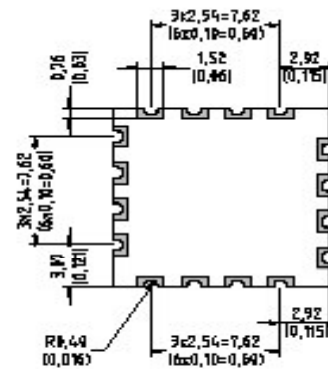
OSCILLATOR SPECIFICATION

VCO : Case Type SM1

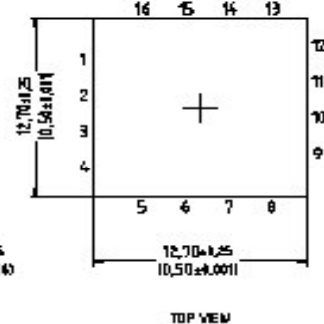
Preliminary Specification

DIMENSIONS: mm [in]

GENERAL TOLERANCES ± 0.2 (± 0.008)



Pin	Function
1,3,4,5,7,8,9	GND
11,12,13,15,16	GND
2	VI
6	NC
10	RF OUT
14	VCC



TOP VIEW

FOOTPRINT

