Datasheet

DLSV TRUE SINE WAVE THRU-HOLE VCXO

FEATURES

- Thru-hole DIL14 oscillator
- High purity and low total harmonic distortion
- Wide pulling range
- Applications: Audio modulation

20.4 x 12.9 x 5.08 mm

Item	Specification	
Frecuency Range	10.0 MHz ~ 800.0 MHz	10.0 MHz ~ 156.0 MHz
Output Logic	True Sine Wave	
Overall Frequency Stability *	± 20 ppm ~ ± 100 ppm (see options)	
Operating Temperature Range	0 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application (see options)	
Supply Voltage Vdd	+3.3 V ±5%	+5.0 V ±5%
Control Voltage Center	+1.65 V	+2.5V
Control Voltage Range	0.3V to 3.0V	0.5V to 4.5V
Supply Current Idd	10 MHz : 9 mA typ. 100 MHz : 18 mA typ. 150 MHz : 20 mA typ.	10 MHz : 18 mA typ. 100 MHz : 34 mA typ. 150 MHz : 36 mA typ.
Output Level	+3 dBm min. Tolerance ±1 dB Maximum power : +7 dBm (User to specify)	+5 dBm min. Tolerance ±1 dB Maximum power : +13 dBm (User to specify)
Output Load	50 ohm (Internally AC coupled)	
Harmonics	<-30 dBc (frequency dependent)	
Sub-Harmonics	None	
Start-up Time	6 ms typ.	
Frequency Pulling Range	standard ±80 ppm min.; ±100 ppm min. ; ±150 ppm min. (see options)	standard ±80 ppm min. ; ±100 ppm min. ; ±150 ppm min. ; ±200 ppm min. (see options)
Linearity	6% typical; 10% max.	
Slope Polarity	Positive (Increasing control voltage always increases output frequency)	
Modulation Bandwidth	10 kHz min (-3 dB)	
Input Impedance	10 kΩ min.	
Packing Unit	100 pcs / box	
	Customer specifications on request	

(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

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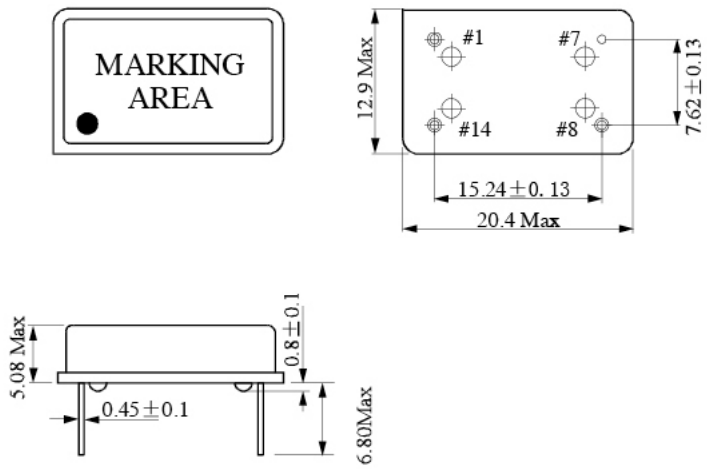
OPTIONS & ORDERING INFORMATION

DLSV

.....	.....	.....	.....	.....	..... -	..... MHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Package type	Pulling *	Frequency in MHz
33 = +3.3 V	**E =** 0° / +70°C	**20 =** ±20 ppm	**F =** No Tri-state	**H1 =** 5.08 mm	**80 =** ±80 ppm min.	Please specify the frequency in MHz
50 = +5.0V	**F =** -20° / +70°C	**25 =** ±25 ppm			**100 =** ±100 ppm min.	
	K = -40° / +85°C	**30 =** ±30 ppm			**150 =** ±150 ppm min.	
		50 = ±50 ppm			**200 =** ±200 ppm min.	
		100 = ±100 ppm				

(*) Note : Not all combinations are possible, please consult us.

OUTLINE DIMENSIONS



Pin Connections	**#1** : Control Voltage	**#7** : GND	**#8**: Output	**#14** : Vdd

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