Frequency Technology

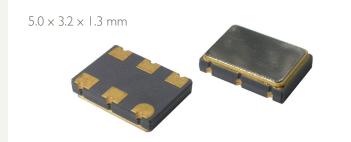
SX5LPV

LVDS SURFACE MOUNT VOLTAGE CONTROLLED CRYSTAL CLOCK OSCILLATOR

Frequency Technology

FEATURES

- Standard miniature package
- Programmable VCXO
- One day delivery



Item	Specification						
Frequency Range	10 MHz ~ 1450 MHz						
Output Signal	LVDS						
Overall Frequency Stability *	± 20 ppm ~ ± 100 ppm (see	\pm 20 ppm \sim \pm 100 ppm (see options)					
Operating Temperature Range	$0 \sim +70$ °C commercial application (see options) -40 $\sim +85$ °C industrial application (see options)						
Supply Voltage Vdd	+2.5V ±5%	+3.3V ±10%					
Control voltage center	+1.25 V	+1.65 V					
Control voltage range	0.2V to 2.3V	0.3V to 3.0V					
Supply Current Idd	15 ~ 45 mA max.						
Output Voltage HIGH VOH	I.43 V typ., I.6 V max.						
Output Voltage LOW VOL	1.10 V typ., 0.9 V min.						
Output Load	50 ohm from each output						
Symmetry	45 / 55 %						
Rise / Fall time Fr/Ff	0.4 ns max.						
Tri-state function	pin #2 = high or open pin #2 = low	· ·	==> oscillation ==> high impedance				
Start-up Time	3 ms typ.; 10 ms max.						
Integrated Phase Jitter (12 kHz to 20 MHz)	I.2 ps typical						
Phase Noise (typical)	Offset 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz	Frequency 156.250 MHz -63 dBc / Hz -94 dBc / Hz -113 dBc / Hz -118 dBc / Hz -119 dBc / Hz	Frequency 622.080 MHz -50 dBc / Hz -85 dBc / Hz -101 dBc / Hz -102 dBc / Hz -103 dBc / Hz				
Frequency Pulling Range	± 100 ppm min. ; ± 150 ppm min. (see options)						
Linearity	3% typical ; 10% max.						
Slope Polarity	Positive (Increasing control voltage always increases output frequency)						
Modulation bandwidth	10 kHz min (-3 dB)						
Input impedance	Ι ΜΩ typ.						
Packing Unit	1000pcs / reel						
Soldering Condition	260°C , 10 sec x2 max						
(*) 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

SX5LPV							MHz
	Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Package type	Pulling *	Frequency in MHz
	25 = +2.5V	E = 0° / +70°C	20 = ±20 ppm	E2 = Tri-state , pin 2	6P = 6-pad version	$100 = \pm 100$ ppm min.	Please specify the
	33 = +3.3V	F = -20° / +70°C	25 = ±25 ppm			$150 = \pm 150 \text{ppm min.}$	frequency in MHz
		K = -40° / +85°C	$30 = \pm 30 \text{ ppm}$				
			$50 = \pm 50 \text{ ppm}$				
			$100 = \pm 100 \text{ ppm}$				

^{*} Note: Not all combinations are possible, please consult us.

OUTLINE DIMENSIONS (MM)

