



SMD VCXO's, 14.4 x 9.5 mm.

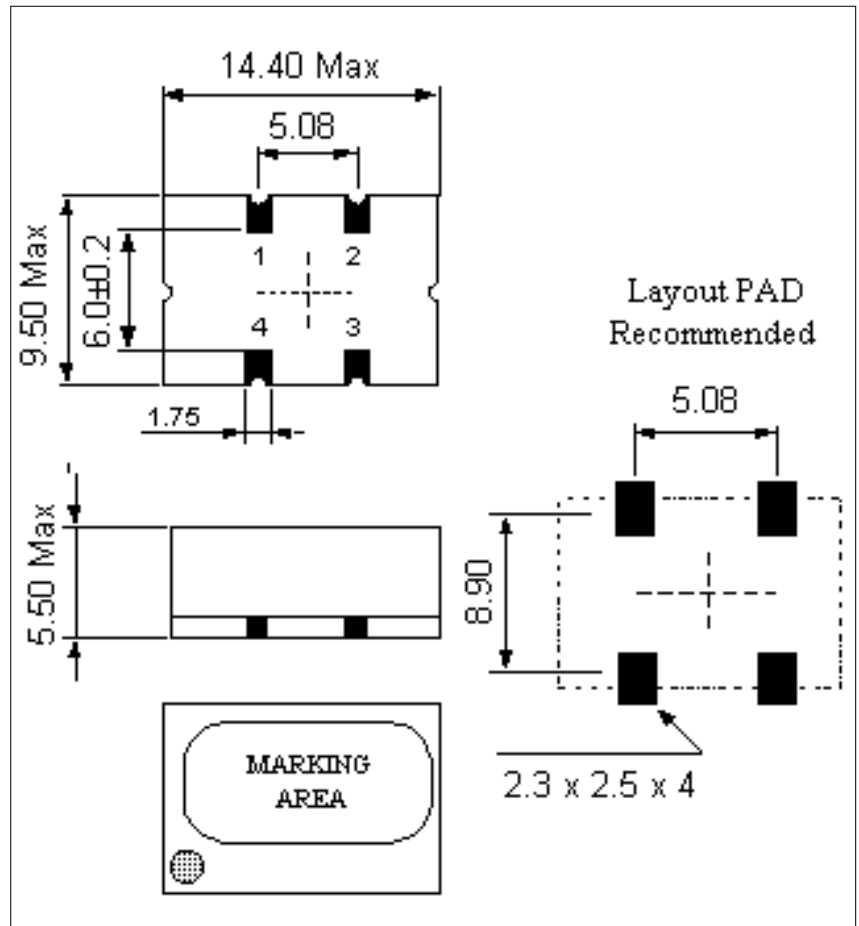
MODEL	V17	V37	V110	V112, V111	V113
FREQ' RANGE	1.00 to 200.00 MHz		1.00 to 800.00 MHz		
FREQ. STABILITY	Typical: ± 50 PPM				
CALIBRATION TOLLERANCE	Typical: ± 15 PPM Best: ± 5 PPM				
FREQ. STABILITY VS. TEMP.	Typical: ± 25 PPM Best: ± 5 PPM				
FREQ. STABILITY VS. SUPPLY VARIATIONS	Typical: ± 3 PPM Best: ± 1 PPM				
FREQ. STABILITY VS. LOAD VARIATIONS	Typical: ± 3 PPM Best: ± 1 PPM				
AGING	± 1 PPM Max. for the first year ± 4 PPM Max. for the first 10 years other options are available too See "How - To - Order" instructions				
OPERATING TEMP' RANGE	Defined by the customer as per the Instructions below				
OUTPUT WAVEFORM	HCMOS/ TTL Compatible High Level (Voh): 0.9 Vcc Min. Low Level (Vol): 0.1 Vcc Max. Symmetry: (50 \pm 10%) or (50 \pm 5%) Rise/ fall Time: 5 nSec Typ. PECL & ECL is available too see "How - To - Order" instructions				
START UP TIME	10 mSec Max. at Min. supply voltage				
LOAD	15 pF (for TTL / HCMOS)				
SUPPLY VOLTAGE	+5.0V	+3.3V		+5.0V	+3.3V
SUPPLY CURRENT	15 mA Max. for F < 25.000 MHz 25 mA Max. for frequencies between 25.000 MHz to 40.000 MHz 45 mA Max. for F > 40.000 MHz				
FREQ' PULLING RANGE	See "How - To - Order" instructions (Typical: ± 100 PPM Min.)				
NOMINAL CONTROL VOLTAGE	+2.5V	+1.65V		+2.5V	+1.65V
CONTROL VOLTAGE RANGE	+0.5 to +4.5V	+0.3 to +3.0V		+0.5 to +4.5V	+0.3 to +3.0V
SLOPE	positive				
LINEARITY	$\pm 10\%$ Max.				
MODULATION FREQUENCY	1 KHz (3 dB)				
INPUT IMPEDANCE	10 K Ω Min				
ENABLE / DISABLE	N/A		Enable: high (above 2.2V) or open Disable: low (below 0.8V)		N/A
PACKAGE	14.4 X 9.5 X 5.5 mm. Max.				

Environmental Conditions	
SHOCK	
IEC 68-2-27 (Test Ea) 30G, 18 mSec, Half Sine	
VIBRATION	
IEC 68-2-6 (Test Fc), 0.35mm, 5G, 10-2000Hz, 6 cycles/ axis	
THERMAL SHOCK	
IEC 68-2-14 (Test Na), 30 min. in each extreme temperature	
SOLDERING HEAT	
235°C ±5°C for 10 Sec. Max. Solder melting point: 217°C	

V17, V37

Pin	Function
1	V Control
2	GND
3	Output
4	Vcc

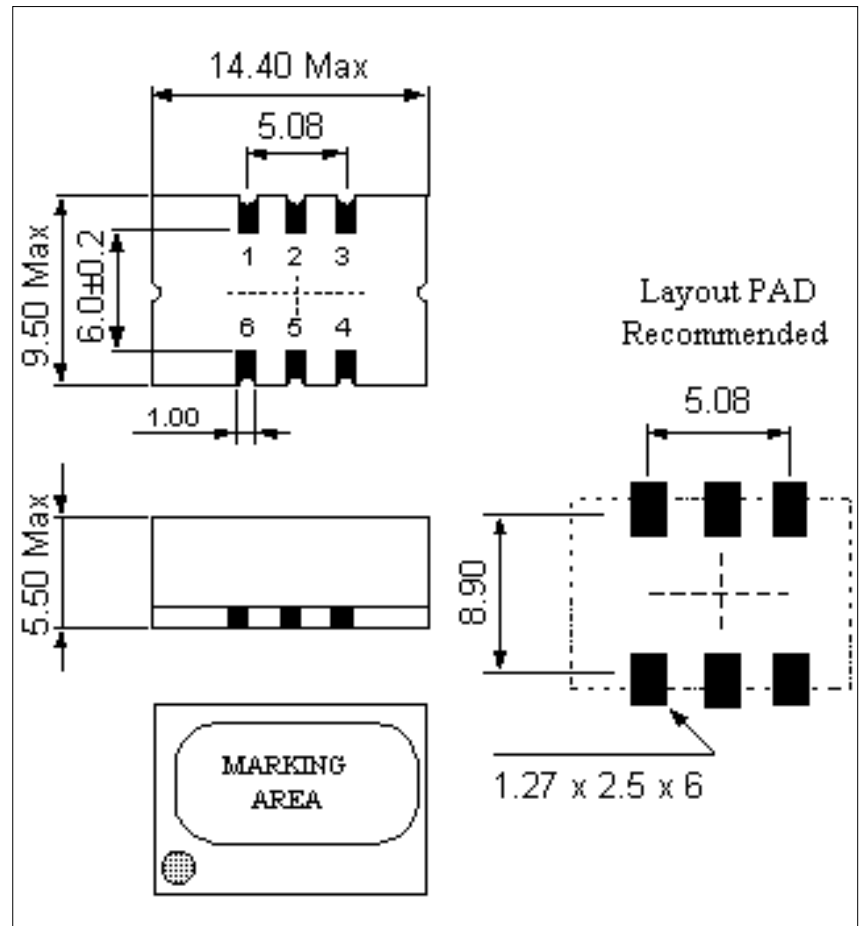
Dimensions in mm.



V110, V111, V112, V113

Pin	Function	
	V110, V112	V111, V113
1	V Control	
2	E/D	N/C
3	GND	
4	Output	
5	N/C or Output ~	
6	Vcc	

Dimensions in mm.



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