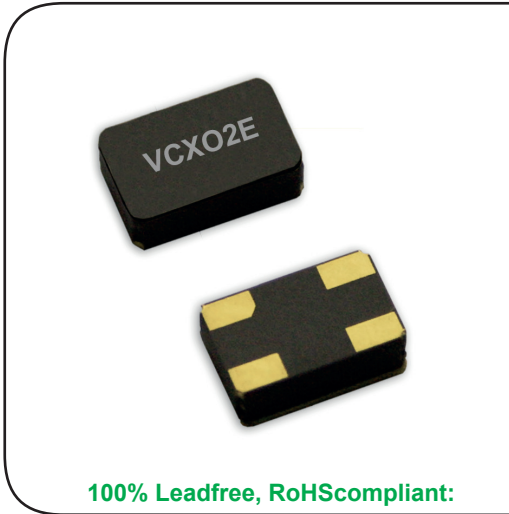
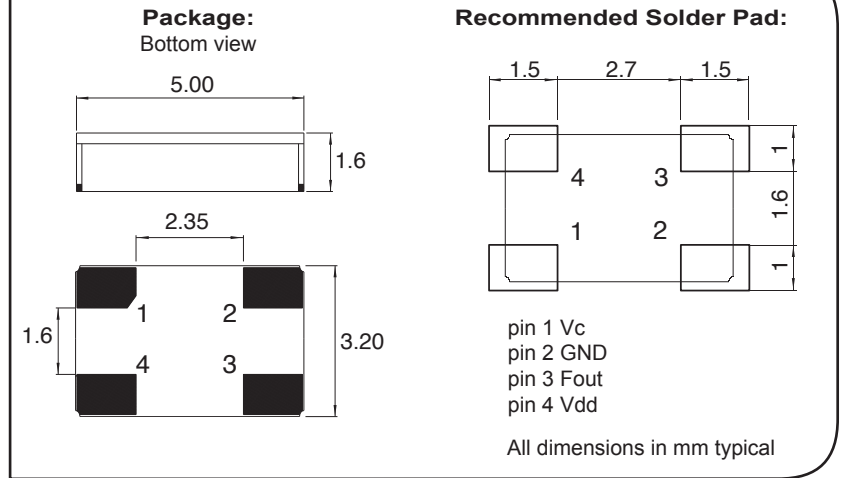


# VCXO2E family package 5×3.2 mm

T range up to 210°C 5 to 40MHz



## DIMENSIONS



**SMT Voltage control oscillator in ceramic package**  
**Fundamental quartz mode frequency**  
**High shock and vibration resistance**  
**Wide temperature range**  
**Low aging**  
**Ultra low internal MSL**  
**Very fast start-up**  
**Excellent solderability**  
**Swiss made quality**  
**Customer specification on request**

## DESCRIPTION:

This SMD oscillator in ceramic package has been specially designed for surface mount using infrared, vapor phase or epoxy techniques.

## APPLICATIONS:

- Downhole and Well drilling equipments
- Avionics
- Airbone equipments
- Geothermal equipments
- Fire fighter equipments

The VCXO2E's are supplied on trays (128 pcs / tray)  
 For pick-and-place equipment, the parts are available in 12mm tapes  
 with 250 parts min  
 1000 parts min

## ELECTRICAL CHARACTERISTICS AT +25°C

Absolute Frequency Pulling range APR (Minimum frequency deviation including 2)*				
Temperature range B= -40 to 85°C C= -55 to 125°C R= -10 to 150°C S= -10 to 175°C T= -10 to 210°C		$\Delta F/F$	<b>± 130</b> <b>± 110</b> <b>± 90</b> <b>± 50</b> <b>± 30</b>	ppm
Supply voltage ± 5%	1)*	Vdd	3.3	V
Input current		Idd	see table 1	
Output signal			HC-MOS compatible	
Symmetry at Vdd/2			40 / 60	%
Rise & fall time (load 15pf 20% to 80%)			≤5	ns
Level "0" & "1"			<0.4>Vdvd-0.5	V
Start-up time		t	<5	ms
Load min / max			3/47	pF

\* 1) C = 47nF ceramic must be connected between GND & Vdd

\* 2) APR is inclusive of frequency deviation due to stability adjustment at +25°C,  
 long term aging 1 year  
 over supply voltage ±5%  
 over load min to max  
 frequency stability over T range

