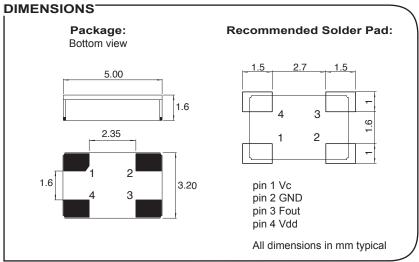


VCXO2H family package 5×3.2 mm T range up to 125°C 5MHz to 170MHz





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:

- Radio transmission / tranceiver
- Avionics
- Airborne equipments
- Fire fighter equipments

The VCXO2H's are supplied on trays (128 pcs / tray)
For pick-and-place equipment, the parts are available in 12mm tapes with 250 parts min

ELECTRICAL CHARACTERISTICS AT +25°C

В	eviation including 2)* Temperature range 3= -40 to 85°C	ΔF/F	± 130	ppm
	C= -55 to 125°C		± 110	
Supply voltage ± 5%	1)*	Vdd	3.3	V
Input current		ldd	see table 1	
Output signal			HC-MOS compatible	
Symmetry at Vdd/2			40 / 60	%
Rise & fall time (load 15pf 20% to 80%)	6)		≤2	ns
Level "0" & "1"			<0.4>Vdvd-0.5	V
Start-up time		t	<5	ms
Load min / max			3/27	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

TABLE 1: Idd (Without load)

Frequency	F=40MHz	≤ 100MHz	130MHz
V=Vdd = 3.3V	< 10mA	< 20mA	< 25mA

FREQUENCY CONTROLE RANGE:

Vc (Voltage control range)	0 to 3.3V
Response Slope	positive
Frequency bandwich	≤10kHz
Input impedance	≥100kohm

STANDARD FREQUENCIES:

Frequency «MHz»				
16.384	24.576	80	100	128
		Other frequencies on request		

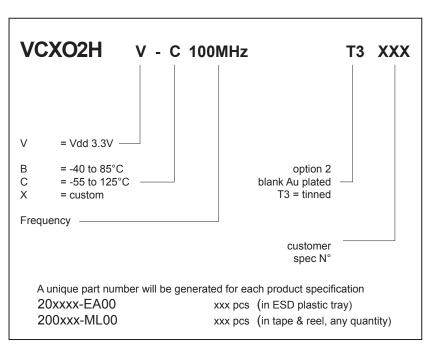
ENVIRONMENTAL CHARACTERISTICS:

Storage temp. range	-65 to +125°C
Vibration resistance	10 to 2000Hz / 20g
Shocks resistance	5000g / 0.3ms / ½ sine

TERMINATIONS AND PROCESSING:

Reflow soldering	260°C / 10s max	
Package	Ceramic 5 x 3.2 x 1.6mm	
Lids	Ceramic	
Terminations option T3 on request	with tinned Ag/Cu/Zn	

PRODUCT DESCRIPTION AND ORDERING INFORMATION:



All specifications subject to change without notice.

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