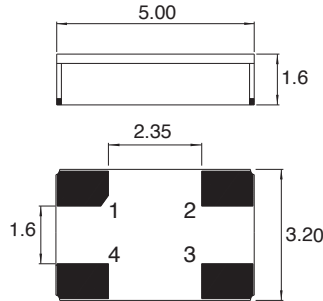


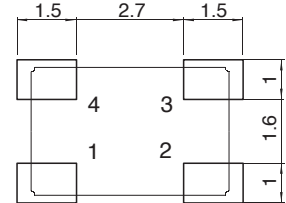


DIMENSIONS

Package:
Bottom view



Recommended Solder Pad:



pin 1 Vc
pin 2 GND
pin 3 Fout
pin 4 Vdd

All dimensions in mm typical

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 / transceiver
- 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

Absolute Frequency Pulling range APR (Minimum frequency deviation including 2)*			
Temperature range B= -40 to 85°C C= -55 to 125°C	$\Delta F/F$	± 130 ± 110	ppm
Supply voltage $\pm 5\%$ 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%)		≤ 2	ns
Level "0" & "1"		$<0.4 > V_{dvd} - 0.5$	V
Start-up time	t	< 5	ms
Load min / max		3/27	pF

**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 bandwiche	≤10kHz
Input impedance	≥100kohm

STANDARD FREQUENCIES:

Frequency «MHz»		
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:**

VCXO2H V - C 100MHz T3 XXX

V = Vdd 3.3V

B = -40 to 85°C

C = -55 to 125°C

X = custom

Frequency

option 2
blank Au plated
T3 = tinned

customer
spec N°

A unique part number will be generated for each product specification

20xxxx-EA00 xxx pcs (in ESD plastic tray)

200xxx-ML00 xxx pcs (in tape & reel, any quantity)

All specifications subject to change without notice.

