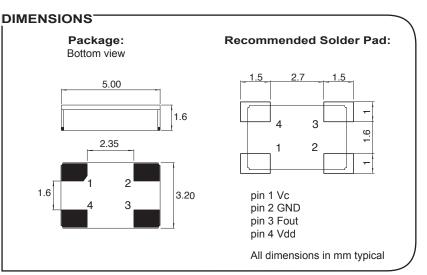


VCXO2H family package 5×3.2 mm T range up to 125°C 40MHz to 130MHz





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

Absolute Frequency (Minimum frequency of				
	Temperature range B= -40 to 85°C C= -55 to 125°C	ΔF/F	± 130 ± 110	ppm
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	%)		≤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)FrequencyF=40MHz $\leq 100MHz$ 130MHzV=Vdd = 3.3V< 10mA</td>< 20mA</td>< 25mA</td>

FREQUENCY CONTROLE RANGE:

Vc (Voltage control range)	0 to 3.3V
Response Slope	positive
Frequency bandwich	≤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	option 2 blank Au plated T3 = tinned		
Frequency			
	customer spec N°		
A unique part number will be gener 20xxxx-EA00 200xxx-ML00	rated for each product specification xxx pcs (in ESD plastic tray) xxx pcs (in tape & reel, any quantity)		

All specifications subject to change without notice.

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