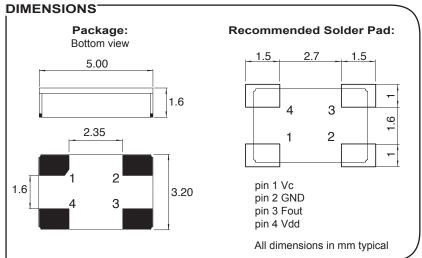


VCXO2E family package 5×3.2 mm T range up to 210°C 5 to 40MHz



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

ELECTRICAL
CHARACTERISTICS AT +25°C



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

Absolute Frequency Pulling range APR (Minimum frequency deviation including 2)* Tempperature 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	ΔF/F	± 130 ± 110 ± 90 ± 50 ± 30	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%)		≤5	ns
Level "0" & "1"		<0.4>Vdvd-0.5	V
Start-up time	t	<5	ms
Load min / max		3/47	pF

TABLE 1: Idd (Without load)

Frequency	F=< 10MHz	≤ 20MHz	40MHz
V=Vdd = 3.3V	< 4mA	< 5mA	< 20mA

FREQUENCY CONTROLE RANGE:

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

STANDARD FREQUENCIES:

Frequency «MHz»			
10	12.288	12.8	20
24	24.576	25.6	
Other frequencies on request			

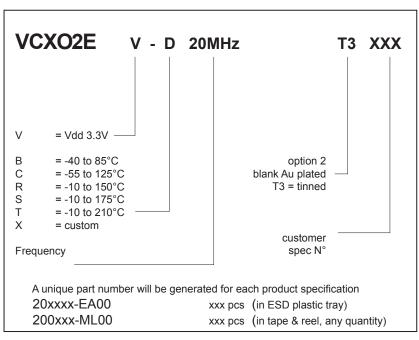
ENVIRONMENTAL CHARACTERISTICS:

Storage temp. range	-65 to +125°C
Vibration resistance	10 to 2000Hz / 40g
Shocks resistance	10000g / 0.3ms / ½ sine

TERMINATIONS AND PROCESSING:

Reflow soldering	260°C / 10s max
Package	Ceramic 5 x 3.2 x 1.6mm
Lids	Ceramic (Kovar on version T)
Terminations option T3 on request (not available on T temperature range)	with tinned Ag/Cu/Zn

PRODUCT DESCRIPTION AND ORDERING INFORMATION:



All specifications subject to change without notice.

