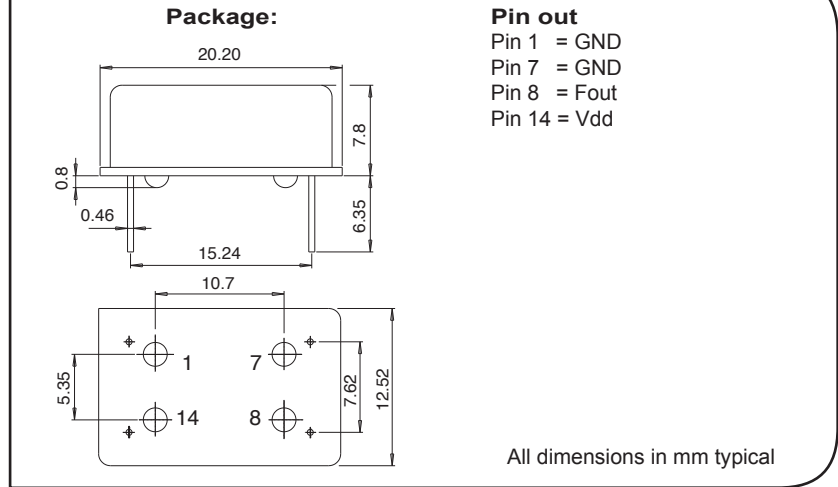




DIMENSIONS



Oven control quartz crystal oscillator
Fundamental mode frequency
High shock and vibration resistance
Wide temperature range
Low aging (sealed under vacuum)
Customer specification on request
Very fast warm up
Low power consumption
Swiss made quality

DESCRIPTION:

This DIL 14 package has been specially designed for the applications:

- Digital switching
- Telecom transmission
- Sonet / SDH / DWDM / FDM/36 / WIMAX
- Airborne equipments
- Instrumentation
- Radio Transceiver
- Battery operated systems

The OCXO are supplied on trays (50 pcs/tray).

ELECTRICAL CHARACTERISTICS AT 25°C

Frequency versus temperature D: 0 to +70°C C: -40 to +85°C	$\Delta F/F$	see table 1 (without air flow)		
Frequency long term aging 15 years, Overall Frequency Stability	$\Delta F/F$	< ± 4.6		ppm
Frequency calibration (pin 1 to GND)	$\Delta F/F$	$\leq \pm 1$		ppm
Supply voltage	Vdd	3.3 / 5		V
Input current	Idd	see table 2		
Output signal		HC MOS compatible		
Symmetry at Vdd/2		45 / 55		%
Rise & fall time (without load)		≤ 7		ns
Level "0" & "1"		<0.4> Vcc-0.5		V
Start-up time	t	< 5		ms
Load min / max		3/47		pF
Frequency stability versus load $\pm 10\%$	$\Delta F/F$	$\leq \pm 10$		ppb
Warm-up within ± 0.1 ppm at 25°C	Vdd	3.3	5	V
	t	120	60	s
Stability versus Vdd	$\Delta F/F$	$\leq \pm 0.1$		ppm
Short term stability 0.1 to 30s 5E-11 typ at 1s	Tau	< 5		E-10
Phase noise typical at 10 MHz Static conditions BW = 1Hz				dBc/ Hz
10Hz			-100	
100Hz			-130	
1 kHz			-140	
10 kHz			-145	

