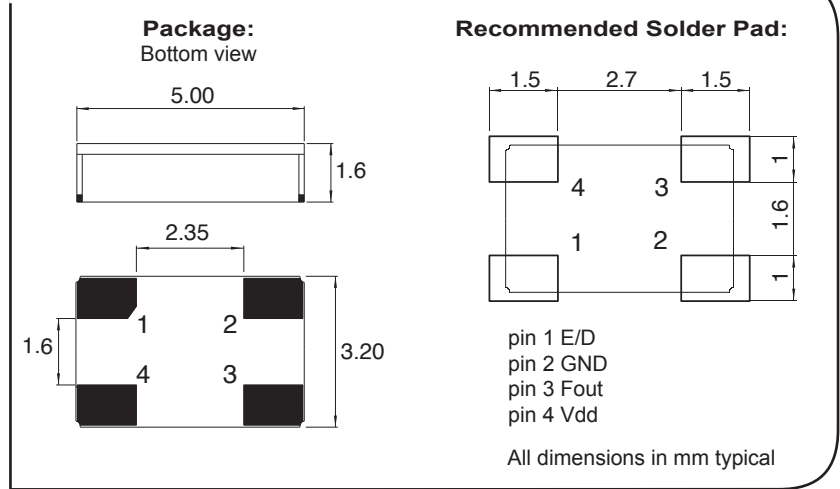




**DIMENSIONS**



- SMT Clock 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

Frequency stability included 1000h at Tmax

**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 MCSO2'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

**ELECTRICAL CHARACTERISTICS AT +25°C**

<b>Frequency stability</b> Over temperature range C = -55 to +125°C (see ordering info) Including 2)*	ΔF/F	≤ ± 100	ppm
<b>Frequency stability</b> Over temperature range E = -55 to +150°C (see ordering info) Including 2)*	ΔF/F	≤ ± 150	
<b>Frequency stability</b> Over temperature range D = -55 to +175°C (see ordering info) Including 2)*	ΔF/F	≤ ± 300	
Supply voltage ± 5% 1)*	Vdd	2.5 / 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%)		25	ns
Level "0" & "1"		<0.4>Vdd-0.5	V
Start-up time	t	<5	ms
Load min / max		3/27	pF

