



GENERAL OSCILLATOR SPECIFICATION - OC8037



Frequency Range	: Up to 160.000 000 MHz.
Frequency Stability	
All Causes (Maximum) *1 *2	: ± 100.0 ppm. ± 300.0 ppm. ± 100.0 ppm.
Temperature Range	
Operating	: 0 to + 70 °C, - 40 to + 85 °C, - 55 to + 125 °C (- 55 to + 175 °C special).
Storage	: - 65 to + 125 °C.
Supply Voltage (± 10.0 %)	: + 5.0 V. + 5.0 V. (special) + 3.3 V.
Supply Current (Maximum)	
up to 19.999 999 MHz	: 15.0 mA. 10.0 mA. 10.0 mA.
20.000 000 to 79.999 999 MHz	: 50.0 mA. 30.0 mA. 30.0 mA.
80.000 000 to 160.000 000 MHz	: 50.0 mA. 30.0 mA. 30.0 mA.
Output Characteristics	
Waveform	: Squarewave.
Output (Compatible)	:
up to 19.999 999 MHz	: HC-MOS HC-MOS HC-MOS
20.000 000 to 79.999 999 MHz	: AC-MOS AC-MOS AC-MOS
80.000 000 to 160.000 000 MHz	: AC-MOS AC-MOS
Load (Gates Maximum)	:
up to 19.999 999 MHz	: 10 LS-TTL 25 pF 10 LS-TTL
20.000 000 to 79.999 999 MHz	: 10 LS-TTL 25 pF 10 LS-TTL
80.000 000 to 160.000 000 MHz	: 10 LS-TTL 10 LS-TTL
Mark Space Ratio (@ 1/2 V _{CC})	: 40:60 (45:55 option).
Rise / Fall Times (Maximum)	
Rise Time (10 % to 90 % V _{CC})	:
up to 19.999 999 MHz	: 7.0 ns. 7.0 ns. 7.0 ns.
20.000 000 to 79.999 999 MHz	: 3.0 ns. 7.0 ns. 3.0 ns.
80.000 000 to 160.000 000 MHz	: 3.0 ns. 3.0 ns.
Fall Time (90 % to 10 % V _{CC})	:
up to 19.999 999 MHz	: 7.0 ns. 7.0 ns. 7.0 ns.
20.000 000 to 79.999 999 MHz	: 3.0 ns. 7.0 ns. 3.0 ns.
80.000 000 to 160.000 000 MHz	: 3.0 ns. 3.0 ns.
Jitter (Maximum)	: 1.0 ps (Not available for frequencies below 40.0 MHz).
Start up Time (Maximum)	: 5.0 mS.
Logic Levels	
High (Minimum)	: V _{CC} - 0.5 V.
Low (Maximum)	: 0.4 V.
Pin 1 (Tri-State) (option)	: Not available for frequencies below 500 kHz.
High or Open	: Enable.
Low	: Disable.

Revision 001 Created on 14/01/2009 by MS

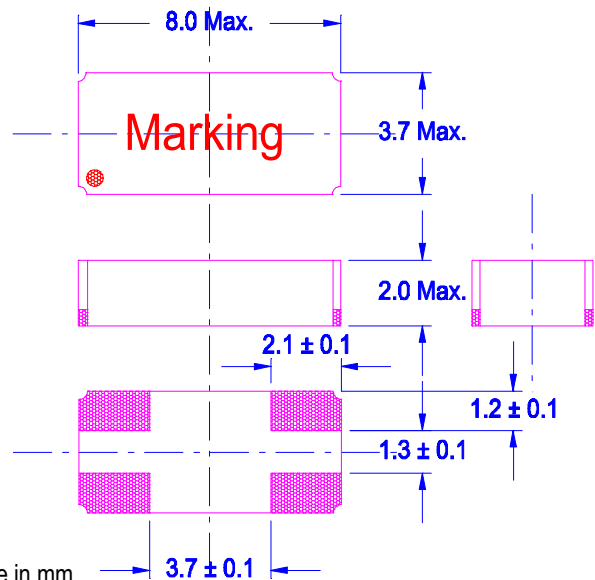
**PRECISION
DEVICES
(UK) LIMITED**

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ISO
ISO9001
Reg. No. FM 01995

Pin Connections

- 1 Tri-State or Not Connected
- 2 Ground
- 3 Output
- 4 Supply Voltage



All Dimensions and Tolerances are in mm



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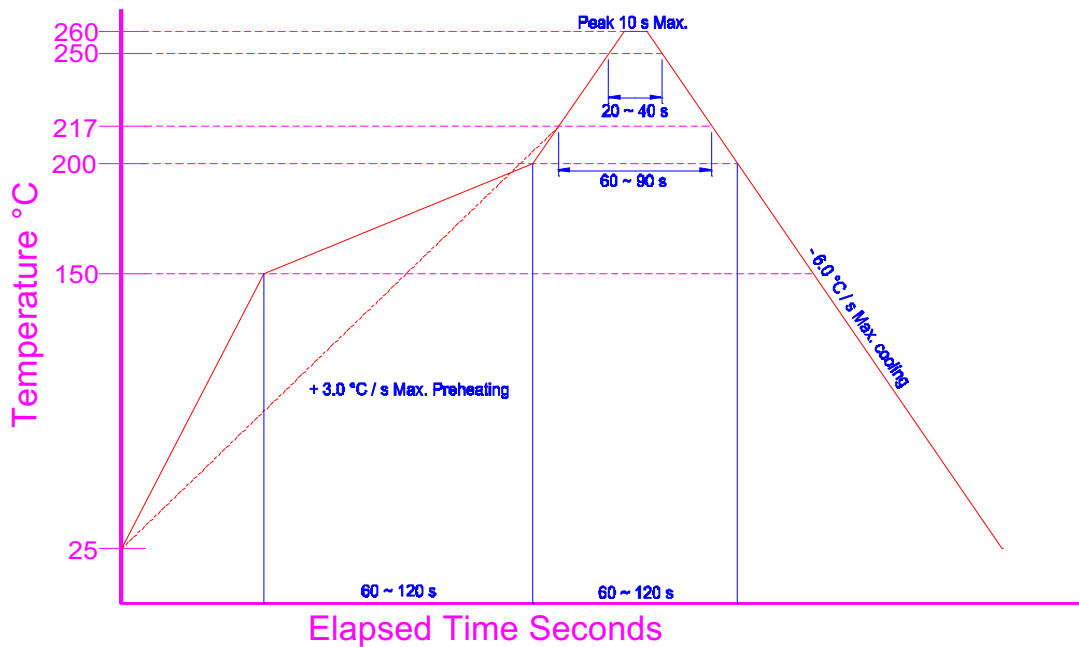
Package Style : 8.00 x 3.70 x 2.00 mm.

Marking
Line 1 : Spec. code

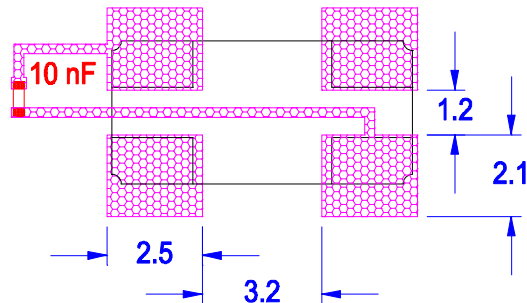
Notes

- *1 Inclusive of calibration @ + 25.0 °C, operating temperature range, input voltage variation, load variation, ageing over ten years, shock, and vibration.
 - *2 Other values available on request.
- Terminals to be Au.
All product supplied in anti-static packaging.
All product is supplied RoHS compliant.
Product can be supplied on Tape and Reel, on reels of 1,000 units.

Reflow Solder Profile



Recommended Solder Pattern



It is recommended that a 10 nF bypass capacitor should be placed between the Supply and Ground Pins to minimise power supply line noise.

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