FREQUENCY MANAGEMENT INTERNATIONAL

Actual Size

HIGH TEMPERATURE REAL TIME CLOCK

P/N: RTC2006 Rev. G

High Temperature 5x7 mm SMD Real Time Clock MODULE

ELECTRICAL SPECIFICATIONS	PARAMETER
SUPPLY VOLTAGE /1	+2.7V to +3.6V
OPERATING TEMPERATURE RANGE	-40°C to +200°C
FREQUENCY STABILITY OVER TEMP	±250 ppm max
I/O INTERFACE	I^2C
SUPPLY CURRENT	85 µA max @ +3.3V (no-load condition)

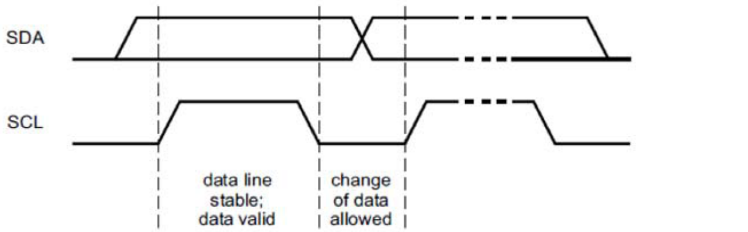
/1: Internal time keeping registers will retain data @ +200℃ at the supply voltage ≥ 1.5V.

/2: 32.768 KHz Clock Output option available, please inquire.

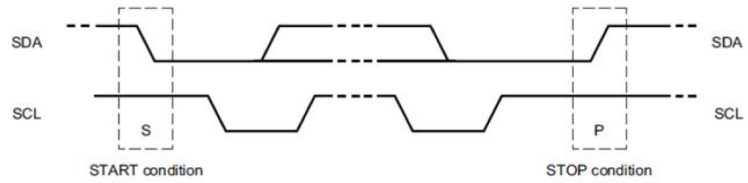
PAD CONFIGURATION	
Pad 1 /2	Do Not Connect*
Pad 2	SDA: Serial Data I/O
Pad 3	SCL: Serial Input Clock
Pad 4	Ground
Pad 5	Do Not Connect*
Pad 6	Do Not Connect*
Pad 7	Do Not Connect*
Pad 8	Supply V (Vcc)

** pads 1, 5, 6, & 7 must be left open*

Bit Transfer



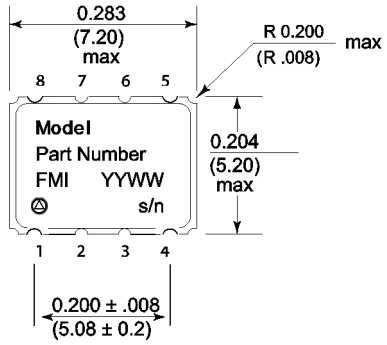
Definition of Start & Stop Conditions



MECHANICAL SPECIFICATIONS

Package type: 5x7 mm Ceramic SMD Package with 8 Gold Plated Pads Pb-free / RoHS Compliant

Package Outline Drawing

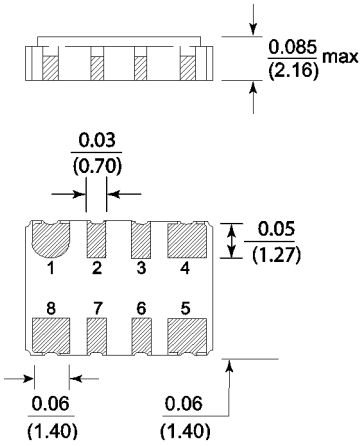


Dimensions: inches / (mm)

Marking Example



MARKING	
Line 1	Model
Line 2	Part Number
Line 3	FMI & Date Code
Line 4	Pin 1 ID, ESD & S/N



An external bypass capacitor 0.01µF is required between Vcc and GND

FMI Drawing Number: RTC2006 Rev: G

Date: 08/01/2025 By: G. Slacum

Page: 1 of 1 Approval: K. Sariri

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