

# 953 Series

Actual Size



## Extreme Environment High Temperature Sensor Oscillator

- Wide temperature range sensing of temperature vs. frequency conversion
- Exceptional low power enables higher thermal accuracy
- Monotonic linearity over wide temperature range
- Reliable under shock, vibration, temperature cycling & long operating life

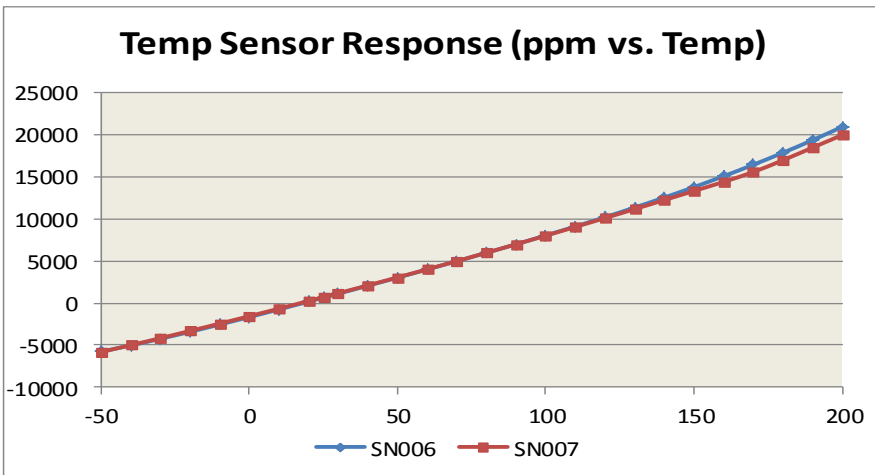
### ELECTRICAL SPECIFICATIONS

### PARAMETER

OUTPUT FREQUENCY	Specified from 13.8 KHz to 40 KHz	/1
SUPPLY VOLTAGE (Vcc)	+1.5 to +3.8 V	/2
OPERATING TEMPERATURE RANGE	-55°C to +205°C	
FREQUENCY SENSITIVITY vs. TEMPERATURE	> +90 ppm/°C (-40 to +200°C)	
LINEARITY (relative to best fit straight line)	R <sup>2</sup> > 0.97	
OUTPUT LOGIC	CMOS	
SUPPLY CURRENT (3.3V & no load)	18 µA (at 32.768 KHz and +3.3V)	
SYMMETRY (duty cycle)	47/53% at Vcc/2 and 10KΩ    15 pF	
OPERATING LIFE	2000 Hours (min) at +200°C	

/1 Specific performance shown at 32.768KHz including supply current

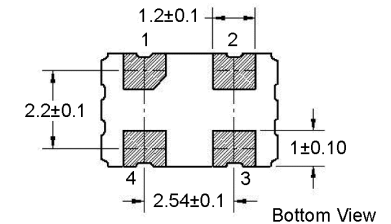
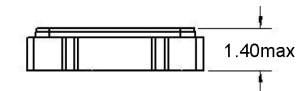
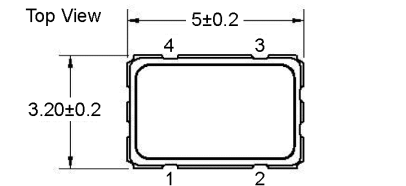
/2 Optional versions for +2.5 to +5.5V range available



### MECHANICAL SPECIFICATIONS

Package type: 5x3.2 mm  
Ceramic SMD Package  
with 4 Gold Plated Pads

Pb-free / RoHS Compliant



### MARKING

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

### Marking Example

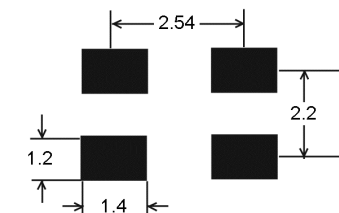


### PAD CONFIGURATION

Pad 1	Output Enable *
Pad 2	Ground
Pad 3	Output
Pad 4	Supply V (Vcc)

\* Disable with logic "0"

### Recommended Land Pattern



Dimensions: inches / (mm)

### FREQUENCY MANAGEMENT INTERNATIONAL

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