

**SPECIFICATION**  
**COMMERCIALY AVAILABLE**

TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR  
 (TCXO)

PART NUMBER: ON-224

No Pure Tin

| ISSUED / REVISION       | ENGINEER APPROVED | DOCUMENT CHECKED | DRAFTSMAN     |
|-------------------------|-------------------|------------------|---------------|
| 3/12/14 <sup>(kn)</sup> | 03/13/2014 TFG    |                  | 03/13/2014 GL |
|                         |                   |                  |               |
|                         |                   |                  |               |
|                         |                   |                  |               |

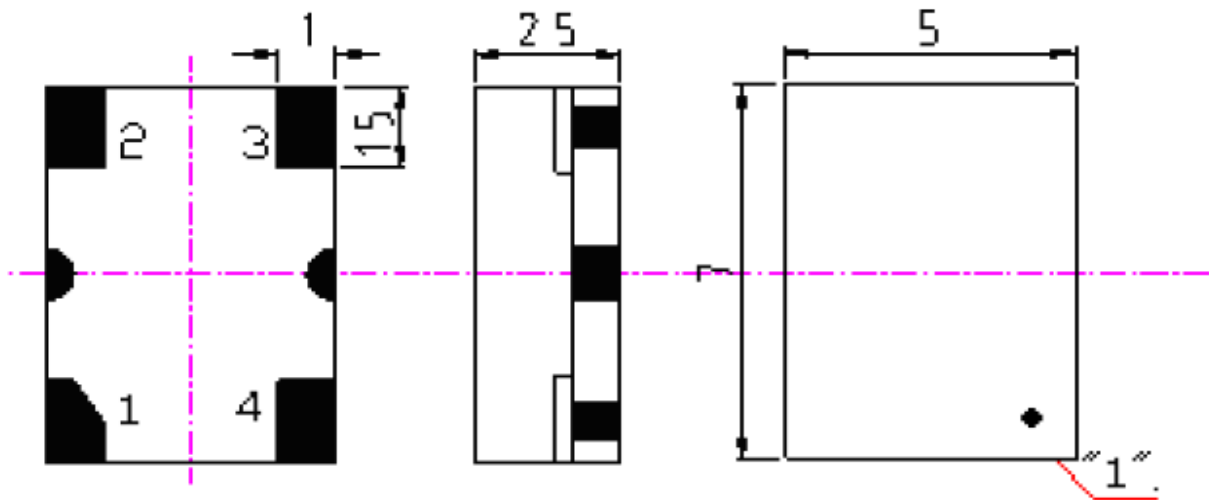
**FILTRONETICS Inc**

1. Part Number: ON-224

2. Electrical Specifications:

| Parameters                                 | Unit                                | Value        | Condition      |
|--|-------------------------------------|--------------|----------------|
| Normal Frequency                           | MHz                                 | 80.00        |                |
| Frequency Calibration                      | ±ppm                                | 1.0          | @25°C          |
| Frequency Stability over temperature range | ±ppm                                | <5.0         | -55°C to +85°C |
| Aging/year                                 | ±ppm/10year                         | <5.0         | @25°C          |
| Supply Voltage                             | V ±5%                               | +3.0         |                |
| Current                                    | mA                                  | <10.0        | Max            |
| Pulling range                              | ±ppm                                | N/A          |                |
| Voltage control                            | V                                   | N/C          | @25°C          |
| Output Waveform                            | HCMOS                               |              |                |
| Output Load Resistance                     | 15PF                                |              |                |
| Output Duty                                |                                     | 40% ~ 60%    | Common         |
| Storage Temperature                        | °C                                  | -55 to +85°C |                |
| Phase Noise                                | -70dBc/Hz @ 10Hz, -110dBc/Hz @ 1KHz |              |                |

3. Dimension:



|       |                |
|-------|----------------|
| "H"   | <2.4mm         |
| PIN 1 | N/C            |
| PIN 2 | GND            |
| PIN 3 | Freq output    |
| PIN 4 | Supply voltage |

Marking:  
ON-224  
Date code

4. Graphs:

