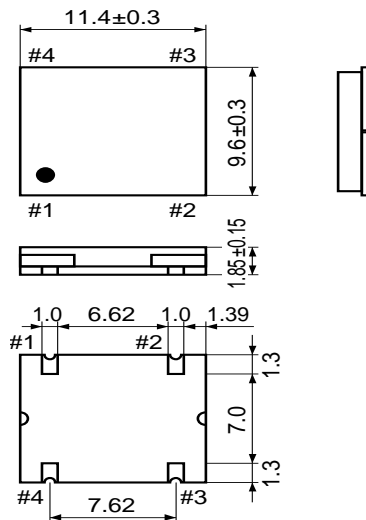


- 1. Part No. : SO-10105
- 2. Nominal frequency range : 12.8000 MHz
- 3. Frequency Stability
  - Temperature range :  $\pm 2.5$  ppm over  $-30^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$
  - Input voltage change :  $\pm 0.3$  ppm at  $+5.0\text{V} \pm 5\%$  ( $V_{\text{con.}} = +2.5\text{V DC}$ )
  - Aging :  $\pm 1.0$  ppm/year at  $+25^{\circ}\text{C}$
  - Output load change :  $\pm 0.3$  ppm at  $10\text{ k}\Omega \pm 10\%$  with  $10\text{ pF} \pm 10\%$
- 4. Operating Conditions
  - Operating temperature :  $-30^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$
  - Storage temperature :  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
  - Input voltage :  $+5.0\text{V DC} \pm 5\%$
  - Control voltage :  $+2.5\text{V DC} \pm 2.0\text{V}$
- 5. Input current : 2.0 mA max.
- 6. Harmonics :  $-3.0\text{ dBc}$  max.
- 7. Reflow frequency change :  $\pm 1.0$  ppm at 24H after reflow
- 8. Output
  - Level :  $0.8\text{ V}_{\text{p-p}}$  min. at  $10\text{ k}\Omega // 10\text{ pF}$
  - Load :  $10\text{ k}\Omega // 10\text{ pF}$
  - Waveform : Clipped sine wave
- 9. Frequency Adjustment
  - Voltage control :  $\pm 12$  ppm  $\pm 25\%$  at  $+2.5\text{V DC} \pm 2.0\text{V}$
- 12. Outline dimensions : See below



PIN	CONNECTION
1	Vcon
2	GND
3	OUTPUT
4	+V DC

ISSUED		CHECKED		APPROVAL	
 '11/05/13 近藤	<i>H. Kondo</i>	 '11/02/02 エドワード	<i>Edward.</i>	 '11/05/13 三浦	
	ITEM. VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATORS				No. <b>SO-10105A</b>