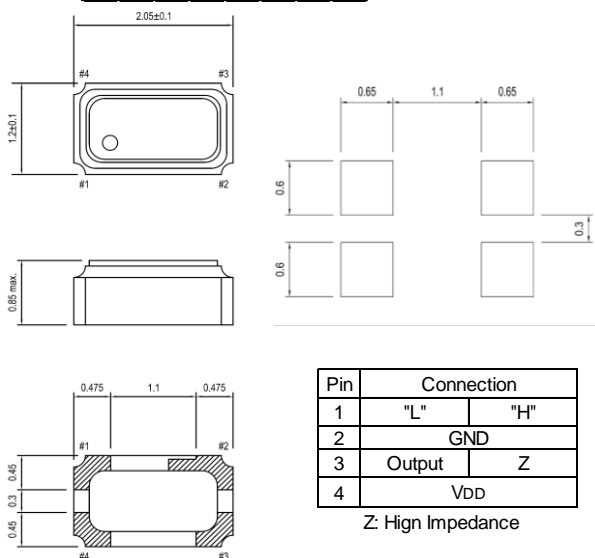
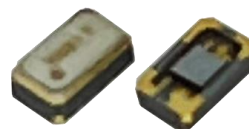
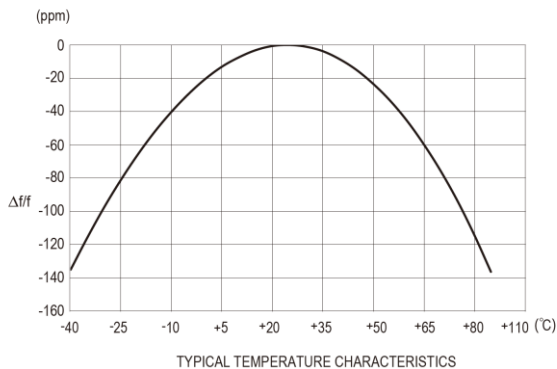


1. Part No. : 327SMO(S)
2. Output frequency : 32.768 kHz
3. Frequency tolerance: ± 20 ppm max.(at +25°C, V_{DD}= +3.3V)
4. Frequency stability (referred to +25°C): +10 ppm to -120 ppm (over -20°C to +70°C ref. to +25°C)
5. Operating Conditions
 - Operating temperature: -40°C to +105°C
 - Supply voltage (V_{DD}): 1.2V to 5.5V
 - Stand-by control voltage(Pin#1): 20%V_{DD} max. (ViL)
80%V_{DD} min. (ViH)
6. Absolute Maximum Ratings
 - Supply voltage: -0.5V to +7.0V
 - Storage temperature: -55°C to +125°C
7. Input current : 0.35μA, Typ. (0.65μA max. at +105°C)/at +1.8V, no load
0.50μA, Typ. (0.80μA max. at +105°C)/at +3.3V, no load
8. Stand-by current 0.25μA, Typ. (0.6μA max. at +105°C)/V_{DD}=+1.2V to +5.5V, no load
9. Output (-40°C to +105°C)
 - Symmetry(CL= 15 pF): 40% to 60% (at 1/2V_{DD}, CL=15 pF)
 - Rise and fall times(CL = 15 pF): 200 ns max.(10% to 90% V_{DD} level, CL=15 pF)
 - "0" level: 0.4V max. (VoL)
 - "1" level: V_{DD}-0.4V min. (VoH)
 - Load: CMOS 15 pF max.
10. Frequency voltage coefficient: ± 3 ppm/V max. (at +25°C, V_{DD}=+1.2V to +5.5V)
11. Start-up time: 0.15 sec., Typ. (0.50 sec. max.)/at +25°C, V_{DD}=+3.3V
12. Aging: ± 3 ppm max. (+25°C, +3.3V, first year)

Dimensions



Temperature characteristic



mm

ISSUED		CHECKED		APPROVAL	
 SMI '22/06/29 石山	 A. Ishiyama	 SMI '22/06/29 増田	 Hiroshi	 SMI '22/06/29 三浦	
		ITEM. 32.768 kHz CMOS CRYSTAL OSCILLATORS		No. SO-10886A	