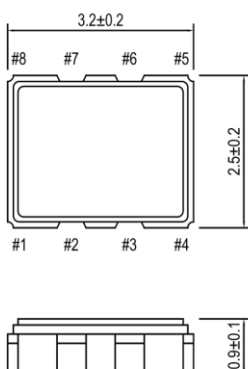


1. Part No. : 327SMO-RTC
2. Nominal frequency : 32.768 kHz
3. Frequency tolerance : ± 5 ppm ($+25^{\circ}\text{C} \pm 2^{\circ}\text{C}$)
4. Frequency stability :
 327SMO-RTC(LT) : ± 7 ppm max. (-40°C to $+105^{\circ}\text{C}$ ref. to $+25^{\circ}\text{C}$)
 327SMO-RTC(LV) : ± 5 ppm max. (-40°C to $+85^{\circ}\text{C}$ ref. to $+25^{\circ}\text{C}$)
 327SMO-RTC(LW) : ± 3.8 ppm max. (-10°C to $+60^{\circ}\text{C}$ ref. to $+25^{\circ}\text{C}$)
5. Operating Conditions
 Operating temperature : -40°C to $+105^{\circ}\text{C}$
 Temperature compensated voltage (Vcomp) : $+2.0\text{V}$ to $+5.5\text{V}$
 Interface supply voltage(Vintf): $+1.5\text{V}$ to $+5.5\text{V}$
 Time keeping supply voltage(Vtime) : $+1.3\text{V}$ to $+5.5\text{V}$
6. Storage temperature range : -40°C to $+105^{\circ}\text{C}$
7. Input current : $4.5 \mu\text{A}$ max. ($\text{VDD} = +3.0\text{V}$, E/D = VDD without load, SCL=SDA=/INT=V_{DD})
8. Stand-by current : $4.0 \mu\text{A}$ max. ($\text{VDD} = +3.0\text{V}$, E/D = GND, SCL=SDA=/INT=V_{DD})
9. Output (-40°C to $+105^{\circ}\text{C}$)
 Symmetry : 40% to 60% at 1/2VDD level (CL = 15pF)
 Rise and fall times : 70 ns max. (CL= 15pF, VDD = +3.0V)
 (20%VDD to 80%VDD level)
 "0" level : V_{OL} : 0.2VDD max.
 "1" level : V_{OH} : 0.8VDD min.
 Load : 15 pF max. (CMOS)
10. Start-up time : 3 sec. max. (-40°C to $+105^{\circ}\text{C}$)
11. Aging: ± 3 ppm for first year at $+25^{\circ}\text{C}$
12. Frequency selection function: 32.768kHz, 1024Hz, 32Hz, 1Hz (Pin#6=SCL, Pin#7=SDA)
13. I²C-BUS serial interface type: 400kHz high speed mode
14. Low voltage detection voltage: $+1.3\text{V}$ min.
15. Reflow soldering conditions :
 $+255^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 seconds
 $+170^{\circ}\text{C} \pm 10^{\circ}\text{C}$ for 1 to 2 minutes (preheating)

16. Outline dimensions :

See below

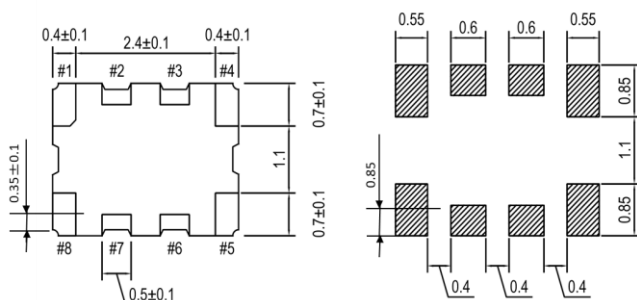
327SMO-RTC
RoHS compliant (Pb-free)



PIN	CONNECTION	I/O	FUNCTION
1	"L" "H"	I	Enable/Disable
2	/INT	O	Time signals, Alarm signals, Constant cycle time signals & Time update signals (N-ch open drain terminal)
3	NC	-	(no connection)
4	GND	-	(ground)
5	Z OUTPUT	O	32.768 kHz signal output (Pin#1="H") CMOS output
6	SCL	I	Serial clock input (I ² C-Bus Serial Interface Clock)
7	SDA	I/O	Serial data input/output (I ² C-Bus Serial Interface Data)
8	V _{DD}	-	(supply voltage)

Z : high impedance

The application manual available. Contact sales.



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