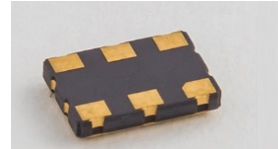
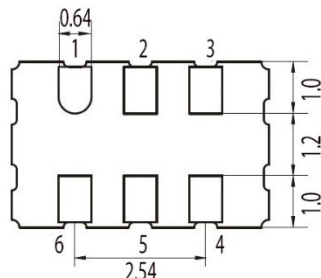
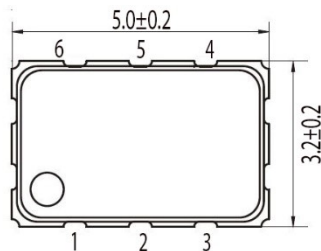


■ ELECTRICAL SPECIFICATION

| PARAMETER | | VALUE |
|------------------------------------|-----------------------|---|
| Nominal Frequency (Fo) | | 122.880 MHz |
| Supply Voltage (Vs) | | 3.3 VDC \pm 10% |
| Control Voltage Range (Vcc) | | 1.65 \pm 1.35 VDC |
| Input Current | | 40 mA max |
| Frequency Stability (all included) | | \pm 30 ppm max |
| Frequency Adjustment Range | | \pm 30 ppm min |
| Operating Temperature Range | | -40°C ~ +85°C |
| Storage Temperature Range | | -55°C ~ +125°C |
| Output LVDS | Symmetry at 50% Vs | 45% ~ 55% |
| | Rise / Fall Time | 0.7 ns max |
| | Logic "0" Level (VOL) | 0.9Vmin / 1.1V typ |
| | Logic "1" Level (VOH) | 1.43V typ / 1.6V max |
| | Load | 100 Ω (OUT – IN) |
| Enable / Disable Function | | Pin 1: High or Open / Output enabled Pin 1: Low / Output disabled (High impedance) |
| | @10 Hz | -76.5 dBc |
| | @100 Hz | -107 dBc |
| | @1 kHz | -132 dBc |
| | @10 kHz | -147 dBc |
| | @100 Hz | -153 dBc |
| | @1 MHz | -155 dBc |
| RMS jitter (12kHz ~ 20MHz) | | 87 fs |

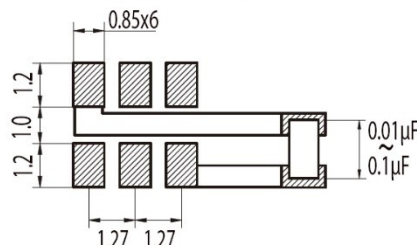


■ MECHANICAL SPECIFICATION



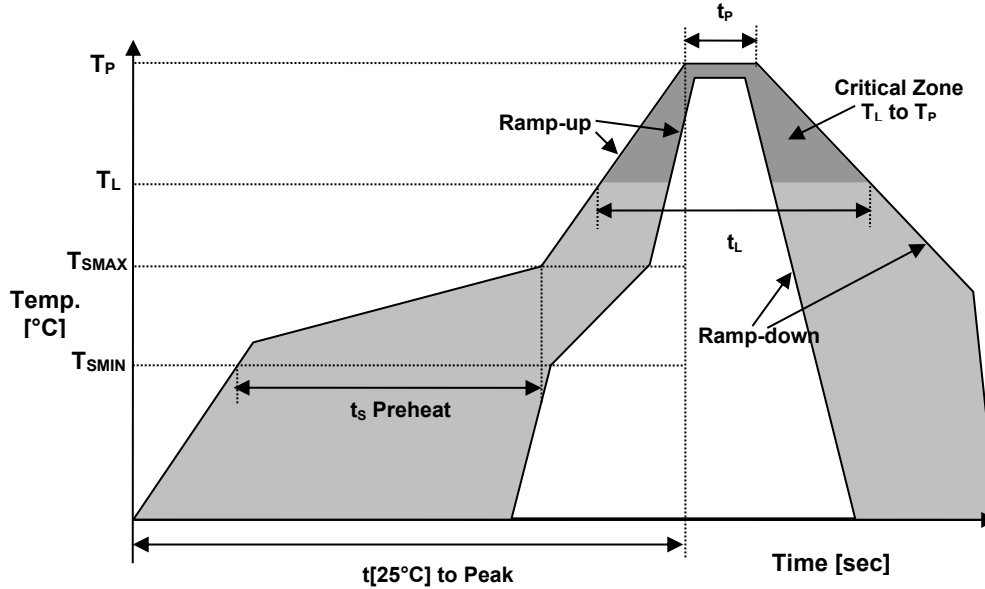
| PIN | Connection |
|-----|-----------------|
| 1 | Vcontrol |
| 2 | "L" Open or "H" |
| 3 | GND |
| 4 | Z Output |
| 5 | Z C-Output |
| 6 | Vcc |

Recommended Soldering Pattern



Unit: mm

REFLOW PROFILE



| Reflow profile | | |
|-------------------------------------|-----------------|--------------|
| Temperature Min Preheat | T_{SMIN} | 150°C |
| Temperature Max Preheat | T_{SMAX} | 200°C |
| Time (T_{SMIN} to T_{SMAX}) | t_s | 60-180 sec. |
| Temperature | T_L | 217°C |
| Peak Temperature | T_P | 260°C |
| Ramp-up rate | R_{UP} | 3°C/sec max. |
| Ramp-down rate | R_{DOWN} | 6°C/sec max. |
| Time within 5°C of Peak Temperature | t_p | 10 sec. |
| Time t[25°C] to Peak Temperature | t[25°C] to Peak | 480 sec. |
| Time | t_L | 60-150 sec. |

ENVIRONMENTAL

| PARAMETER | VALUE |
|----------------------------|-----------|
| MOISTURE SENSITIVITY LEVEL | 1 |
| REACH SVHC | Compliant |
| RoHS | Compliant |
| TERMINATION FINISH | Au |



APPROVAL

| RALTRON | |
|--------------|----------------------|
| DRAWN BY: | CP, October 31, 2019 |
| APPROVED BY: | IM, October 31, 2019 |
| REVISION: | A, Initial Release |

Raltron Electronics / RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort to ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided only for reference purposes only and is subject to change, correction or revision, at any time without notice. Raltron/RAMI Tech does not assume any liability arising out of an application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages.

Copyright © 2016, Raltron Electronics / RAMI Technology USA, LLC. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Raltron Electronics / RAMI Technology USA, LLC.