

SURFACE MOUNT MICROPROCESSOR CRYSTAL

Page 1 of 3

RH100-12.000-10-2020-TR

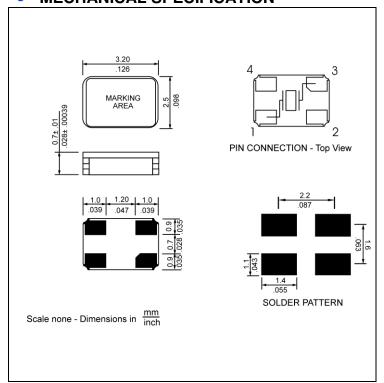
SPECIFICATIONS

| PARAMETER | VALUE | |
|--------------------------------------|-------------------------|--|
| FREQUENCY RANGE | 12.000 MHz | |
| MODE OF OSCILLATION | Fundamental | |
| FREQUENCY TOLERANCE AT 25°C | ±20 ppm max | |
| FREQUENCY STABILITY OVER TEMPERATURE | ±20 ppm max | |
| OPERATING TEMPERATURE RANGE | -20°C to +70°C Standard | |
| STORAGE TEMPERATURE RANGE | -40°C to +85°C | |
| AGING | ±5 ppm per year max | |
| LOAD CAPACITANCE | 10 pF | |
| EQUIVALENT SERIES RESISTANCE | 100 Ω | |
| SHUNT CAPACITANCE | 5 pF max | |
| DRIVE LEVEL | 100 μW max | |

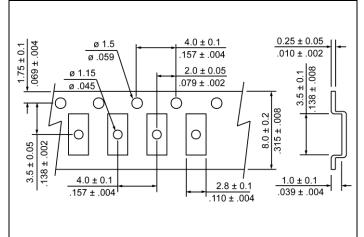


Photo is not actual part

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

178 mm REEL DIAMETER 8 mm TAPE WIDTH, 4 mm PITCH QUANTITY: 3000 PIECES PER REEL

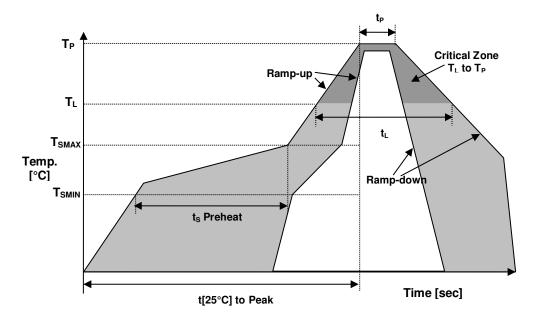
IN ACCORDANCE WITH EIA-481

SURFACE MOUNT MICROPROCESSOR CRYSTAL

Page 2 of 3

RH100-12.000-10-2020-TR

REFLOW PROFILE



| Reflow profile | | | | |
|--|-------------------|--------------|--|--|
| Temperature Min Preheat | T _{SMIN} | 125°C | | |
| Temperature Max Preheat | T _{SMAX} | 150°C | | |
| Time (T _{SMIN} to T _{SMAX}) | t _S | 30-60 sec. | | |
| Temperature | T∟ | 217°C | | |
| Peak Temperature | T _P | 230°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 | 120 sec. | | |
| Time | t _L | 60-150 sec. | | |

ENVIRONMENTAL

| PARAMETER | VALUE |
|----------------------------|-----------|
| MOISTURE SENSITIVITY LEVEL | 1 |
| RoHS | COMPLIANT |
| REACH SVHC | COMPLIANT |
| HALOGEN-FREE | COMPLIANT |
| ESD CLASSIFICATION LEVEL | N/A |
| TERMINATION FINISH | Au |



RALTRON ELECTRONICS • 10400 N.W. 33rd STREET • Miami, Florida 33172 • U.S.A. Telephone: 305-593-6033 • Fax: 305-594-3973 • e-mail: sales@raltron.com • web site: http://www.raltron.com



SURFACE MOUNT MICROPROCESSOR CRYSTAL

Page 3 of 3

RH100-12.000-10-2020-TR

MARKING

R12.00 xxKDyw

x – Internal Production ID code

y – Year code

w - Week code

| YEAR CODE | | |
|-----------|------|--|
| Year | Code | |
| 2011 | 1 | |
| 2012 | 2 | |
| 2013 | 3 | |
| 2014 | 4 | |
| 2015 | 5 | |
| 2016 | 6 | |
| 2017 | 7 | |
| 2018 | 8 | |
| 2019 | 9 | |

| ALPHA WEEK CODE TABLE | | | | | |
|-----------------------|------|------|------|------|------|
| Week | Code | Week | Code | Week | Code |
| 1 | a | 19 | s | 37 | K |
| 2 | b | 20 | t | 38 | L |
| 3 | c | 21 | u | 39 | M |
| 4 | d | 22 | v | 40 | N |
| 5 | e | 23 | w | 41 | О |
| 6 | f | 24 | x | 42 | P |
| 7 | g | 25 | У | 43 | Q |
| 8 | h | 26 | z | 44 | R |
| 9 | i | 27 | A | 45 | S |
| 10 | j | 28 | В | 46 | T |
| 11 | k | 29 | С | 47 | U |
| 12 | 1 | 30 | D | 48 | V |
| 13 | m | 31 | E | 49 | W |
| 14 | n | 32 | F | 50 | X |
| 15 | О | 33 | G | 51 | Y |
| 16 | p | 34 | Н | 52 | Z |
| 17 | q | 35 | I | | |
| 18 | r | 36 | J | | |

APPROVAL

| DRAWN BY | KJackson, May 8, 2015 |
|-------------|-----------------------|
| APPROVED BY | KJackson, May 8, 2015 |
| 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 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.