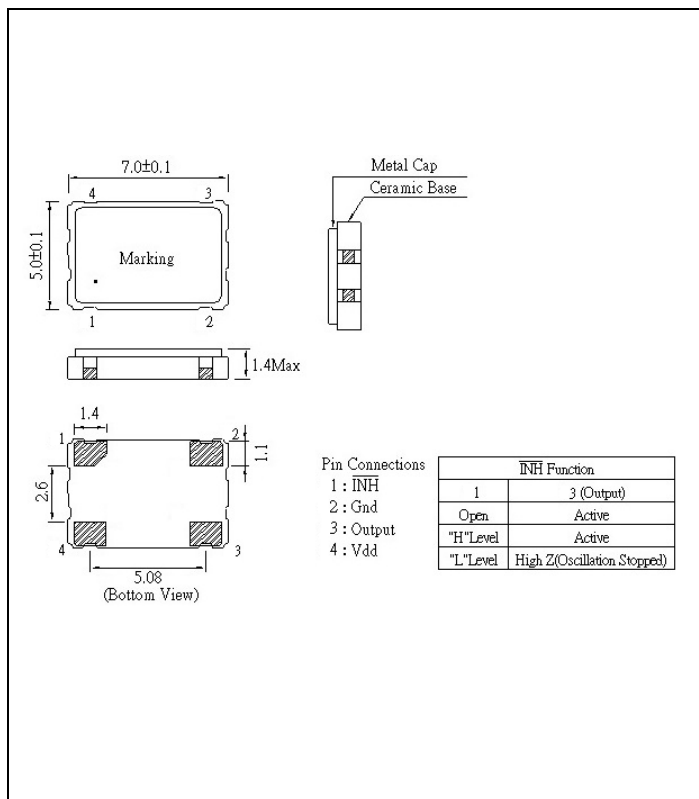


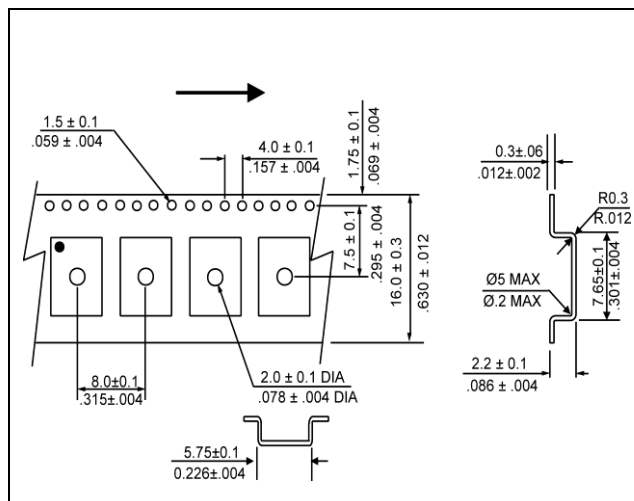
ELECTRICAL SPECIFICATION

| PARAMETER | SYMBOL | CONDITIONS | VALUE | UNIT |
|-----------------------------|------------------------------------|--|------------------------|------------|
| Frequency, nom | fo | | 50.000 | MHz |
| Supply voltage, nom | Vcc | Vcc ±10% | 3.3 | V |
| Supply Current, max | Is | Ta=+25°C Load=15 pF CMOS or 5 TTL max | 25 | mA |
| Output Voltage Levels | V _{OH} V _{OL} | Logic 1, min Logic 0, max | 0.9 x Vcc 0.1 x Vcc | VDC VDC |
| Duty Cycle | DC | @ 50% of signal | 45 ~ 55 | % |
| Rise Time / Fall Time, max | tr / tf | 20%~80% Vout, 80%~20% Vout, | 3 | ns |
| Start-up Time, max | | | 10 | ms |
| Jitter, RMS, max | J | 1σ, 12kHz < Fj < 20MHz | 1 | ps |
| Freq. Stability, max | Δf/fc | Inclusive of 25° Tolerance, Operating Temperature Range, Voltage, Load Variations & First Year Aging | ±50 | ppm |
| Output Enabled / Disabled | En Dis | Pin 1: High Voltage or No Connect, Pin 3 Enabled, min Pin 1: Ground, Pin 3 Disabled, max | 0.7 x Vcc 0.3 x Vcc | VDC VDC |
| Operating Temperature Range | Ta | | -40 ~ +85 | °C |
| Storage Temperature Range | T(stg) | | -55 ~ +125 | °C |

MECHANICAL SPECIFICATION



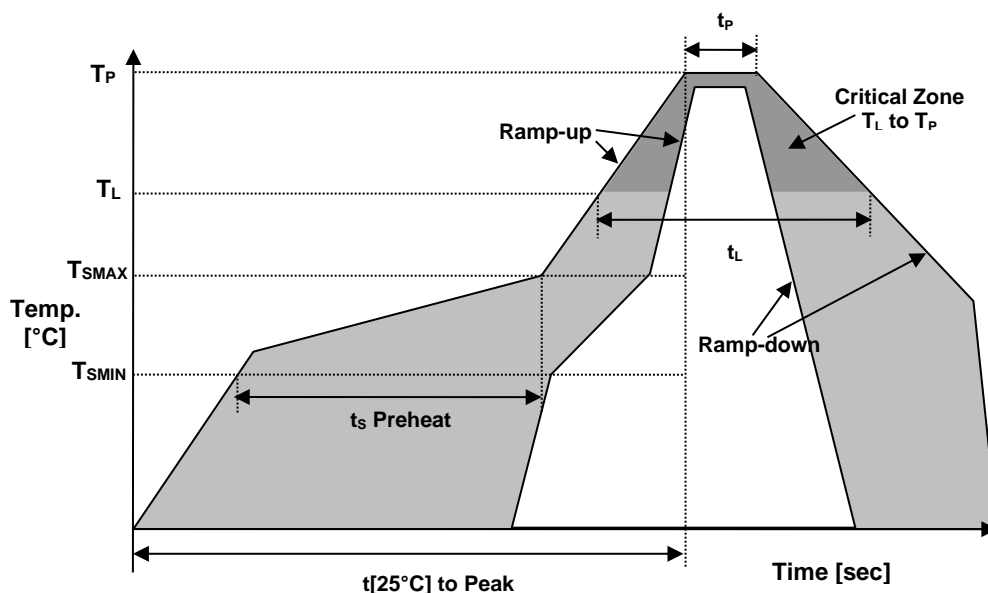
OUTLINE TOLERANCE: ±0.015" / 0.4mm (Unless otherwise specified)



PACKAGING

254 mm REEL DIAMETER
16 mm TAPE WIDTH, 8 mm PITCH
QUANTITY: 1000 PIECES PER REEL
IN ACCORDANCE WITH EIA-481

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 $t[25^\circ\text{C}]$ to Peak Temperature | $t[25^\circ\text{C}]$ to Peak | 480 sec. |
| Time | t_L | 60-150 sec. |

ENVIRONMENTAL

| PARAMETER | VALUE |
|----------------------------|-----------|
| MOISTURE SENSITIVITY LEVEL | 1 |
| RoHS | Compliant |
| REACH-SVHC | Compliant |
| HALOGEN-FREE | Compliant |
| TERMINATION FINISH | Au |
| UNIT WEIGHT (grams) | 0.155 |





A RAMI TECHNOLOGY Company

CLOCK OSCILLATOR

Page 3 of 3

CO4305-50.000-EXT-T-TR

MARKING

Rx50.00T
•3BEyww

x – 1 or 2 digits as Internal Production ID code
y – Year code
w – Week code

| YEAR CODE | |
|-----------|------|
| Year | Code |
| 2018 | 8 |
| 2019 | 9 |
| 2020 | 0 |
| 2021 | 1 |
| 2022 | 2 |
| 2023 | 3 |
| 2024 | 4 |
| 2025 | 5 |
| 2026 | 6 |
| 2027 | 7 |
| 2028 | 8 |
| 2029 | 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 | O |
| 6 | f | 24 | x | 42 | P |
| 7 | g | 25 | y | 43 | Q |
| 8 | h | 26 | z | 44 | R |
| 9 | i | 27 | A | 45 | S |
| 10 | j | 28 | B | 46 | T |
| 11 | k | 29 | C | 47 | U |
| 12 | l | 30 | D | 48 | V |
| 13 | m | 31 | E | 49 | W |
| 14 | n | 32 | F | 50 | X |
| 15 | o | 33 | G | 51 | Y |
| 16 | p | 34 | H | 52 | Z |
| 17 | q | 35 | I | | |
| 18 | r | 36 | J | | |

APPROVAL

| | |
|--------------|---|
| DRAWN BY: | KJackson, January 26, 2015 |
| APPROVED BY: | KJackson, January 26, 2015 |
| REVISION: | A, Initial Release B, Updated to current spec levels KJ 1/22/18 C, Updated to current spec levels by XLiu, May 12, 2021 |

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