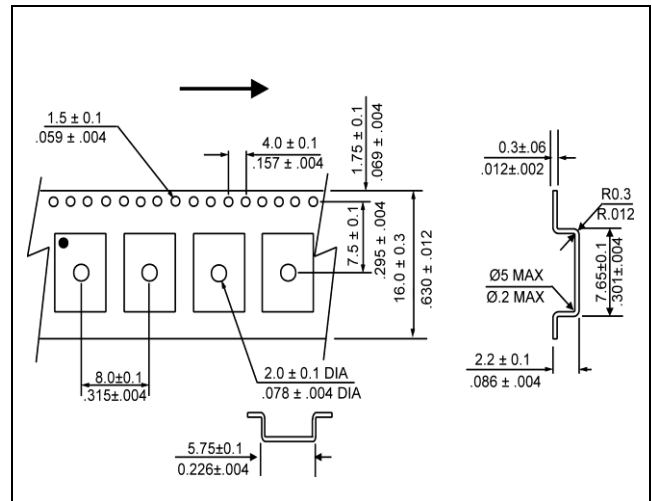
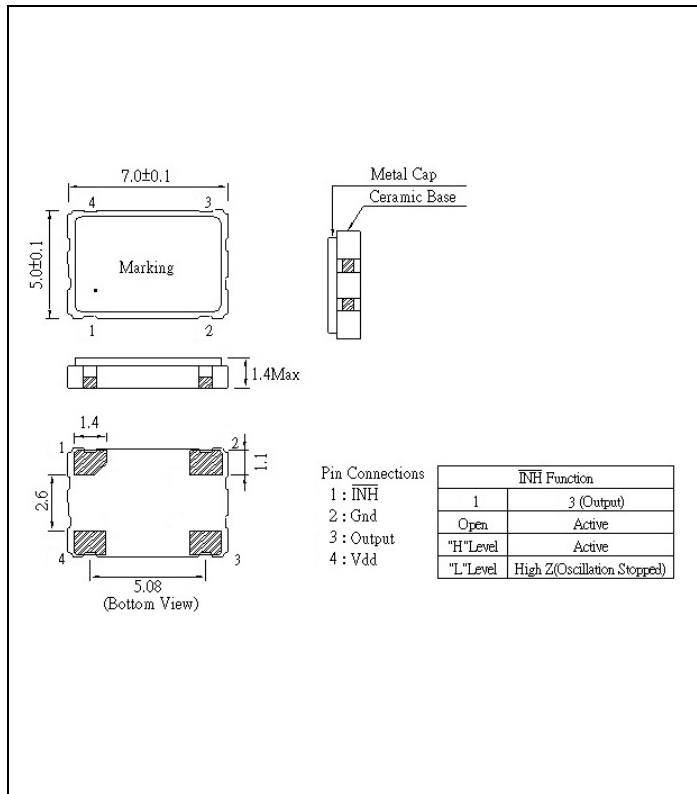


ELECTRICAL SPECIFICATION

| PARAMETER | SYMBOL | CONDITIONS | VALUE | UNIT |
|------------------------------|------------------------------------|---|--------------------|--------|
| Frequency, nom | fo | | 12.000 | MHz |
| Supply voltage, nom | Vcc | Vcc ±10% | 5 | V |
| Supply Current, max | Is | Ta=+25°C Load=15 pF CMOS or 5 TTL max | 45 | mA |
| Output Voltage Levels | V _{OH} V _{OL} | Logic 1 Logic 0 | 4.5 min 0.5 max | V V |
| Duty Cycle | DC | @ 50% of signal | 40 ~ 60 | % |
| Rise Time / Fall Time, max | tr / tf | 20%~80% Vout, 80%~20% Vout, | 5 | ns |
| Start-up Time, max | | | 10 | ms |
| Jitter, RMS, max | J | 1σ, 12kHz < F ₁ < 20MHz | 1 | ps |
| Load | | | 15 | pF |
| Overall Freq. Stability, max | Δf/fc | Inclusive of 25° Tolerance, Operating Temperature Range, Voltage & Load Variations and Aging | ±50 | ppm |
| Output Enabled / Disabled | En Dis | Pin 1: High Voltage (2.2V min) or No Connect, Pin 3 Enabled Pin 1: Low (0.3V max) or Ground, Pin 3 Disabled (High Impedance) | | |
| Operating Temperature Range | Ta | | -40 ~ +85 | °C |
| Storage Temperature Range | T(stg) | | -55 ~ +125 | °C |

MECHANICAL SPECIFICATION



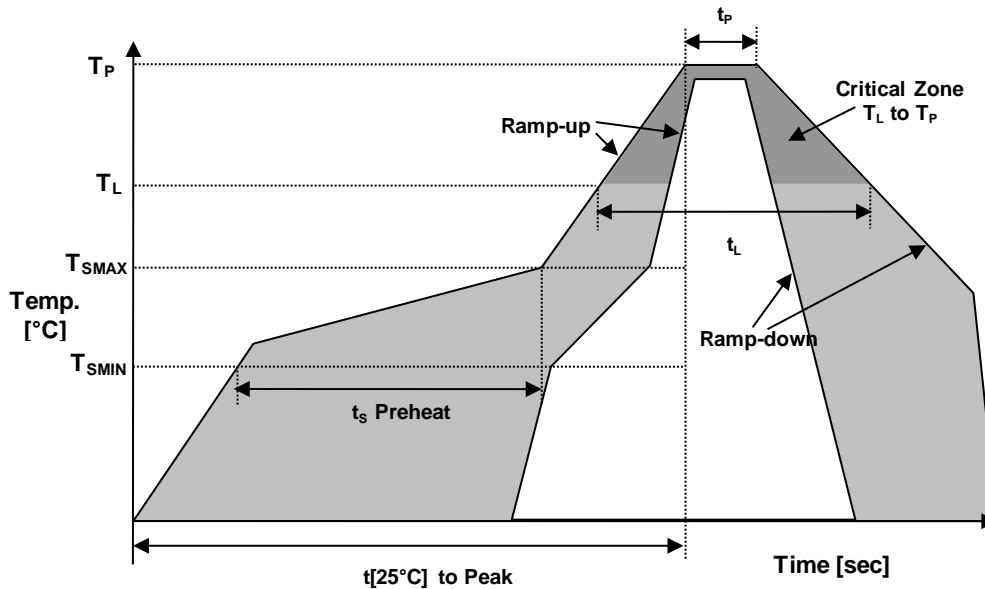
PACKAGING

254 mm REEL DIAMETER
16 mm TAPE WIDTH, 8 mm PITCH
QUANTITY: 1000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481

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

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 |
| RoHS | Compliant |
| REACH-SVHC | Compliant |
| HALOGEN-FREE | Compliant |
| TERMINATION FINISH | Au |
| UNIT WEIGHT (grams) | 0.155 |



MARKING

Rx12.000

•9BEyww

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: | YLi, June 5, 2020 |
| APPROVED BY: | CP, June 5, 2020 |
| REVISION: | A, Initial Release |

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