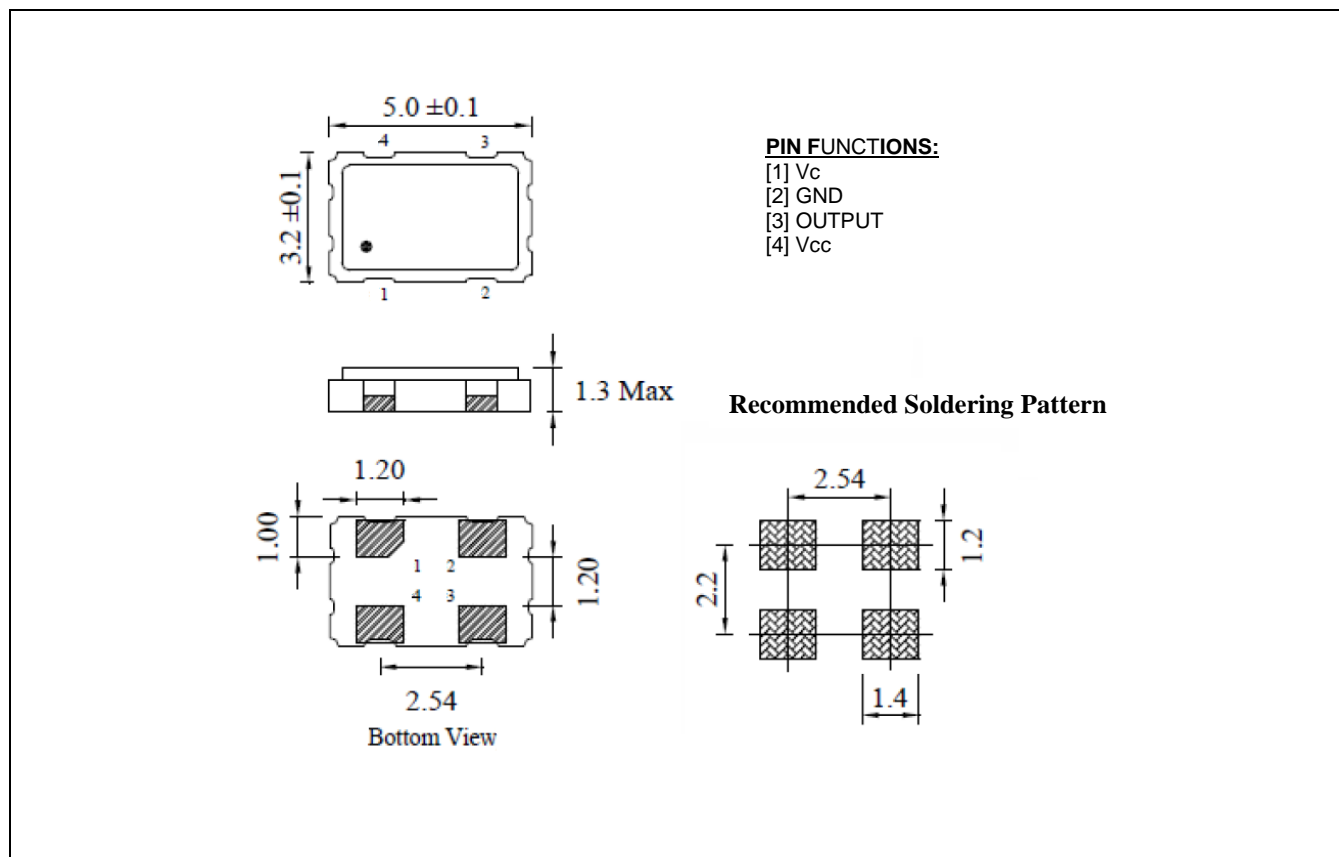


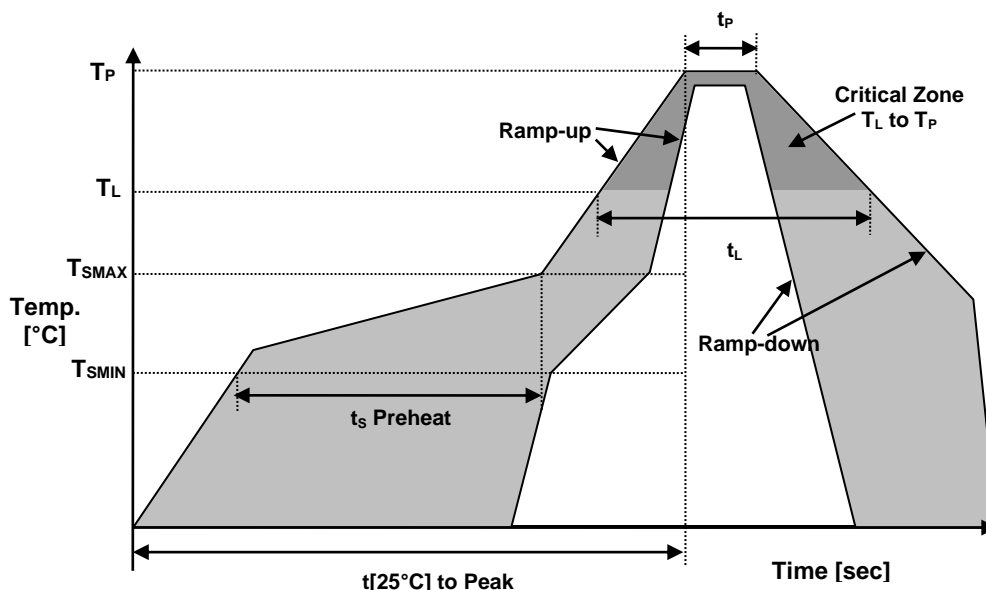
ELECTRICAL SPECIFICATION

| PARAMETER | SYMBOL | CONDITIONS | VALUE | UNIT |
|--------------------------------------|-----------------------------|---|-----------|-----------|
| Nominal Frequency | f_0 | $V_{CC} \pm 5\%$ | 26.00 | MHz |
| Supply Voltage, nom | V_{CC} | --- | 3.0 | VDC |
| Supply Current, max | I_S | $V_{CC} \pm 5\%$ | 2.0 | mA |
| Operating Temperature Range | T_a | | -30 ~ +75 | °C |
| Storage Temperature Range | $T(stg)$ | Absolute max | -40 ~ +85 | °C |
| Frequency Stability | | | | |
| vs. Temperature | $\Delta f/f_0(T_a)$ | Reference to +25°C over Temperature Range | ±2.5 | ppm |
| vs. Supply Voltage | $\Delta f/f_V$ | $V_{CC} \pm 5\%$ | ±0.2 | ppm |
| vs. Load | $\Delta f/f_L$ | Load ±10% | ±0.2 | ppm |
| vs. Aging max | $\Delta f/f_0(\text{year})$ | First Year at +25°C ± 2°C | ±1.0 | ppm |
| Initial Frequency Calibration, max | f_c | Measured at 25°C, before shipment | ±1.0 | ppm |
| Reflow Shift, max | $\Delta f/fr$ | 2 consecutive reflows, after 2 hours relaxation | ±1.0 | ppm |
| Start-up Time, max | T_s | --- | 5 | ms |
| Output Level, Clipped Sine Wave, min | | 10kΩ // 10 pF ±10% | 0.8 | V_{P-P} |
| Voltage Control Range, min | V_c | $V_{cont} = 1.65 \pm 1.0V$ | 5 | ppm |
| Phase Noise | $\mathcal{L}(\Delta f)$ | @10 kHz | -145 | dBc/Hz |

MECHANICAL SPECIFICATION



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 |
| REACH | Compliant |
| RoHS | Compliant |
| TERMINATION FINISH | Au |



• **MARKING**

Rx26.00

•EF3yw

x – 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 | | |

• **APPROVALS**

| | |
|-------------|--------------------|
| DRAWN BY | AR, May 28, 2021 |
| APPROVED BY | CP May 28, 2021 |
| REVISION | A, Initial Release |

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