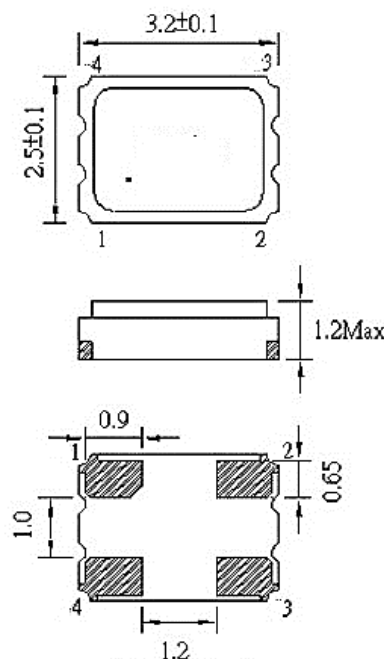


#### ELECTRICAL SPECIFICATION

| PARAMETER                            | SYMBOL                  | CONDITIONS                                      | VALUE     | UNIT             |
|--------------------------------------|-------------------------|---|-----------|------------------|
| Nominal Frequency                    | $f_o$                   | $V_{CC} \pm 5\%$                                | 26.000    | MHz              |
| Supply Voltage, nom                  | $V_{CC}$                | ---   | 2.8 ~ 3.3 | VDC              |
| Supply Current, max                  | $I_s$                   | $V_{CC} \pm 5\%$                                | 2.0       | mA               |
| Operating Temperature Range          | $T_a$                   |   | -40 ~ +85 | °C               |
| Storage Temperature Range            | $T(stg)$                | Absolute max                                    | -40 ~ +85 | °C               |
| Frequency Stability                  |                         |   |           |                  |
| vs. Temperature                      | $\Delta f/f_o(T_a)$     | Reference to +25°C over Temperature Range       | ±1.0      | 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                        | $\Delta f/f_o(year)$    | 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 <sub>P-P</sub> |
| Phase Noise                          | $\mathcal{L}(\Delta f)$ | @1 kHz  | -130      | dBc/Hz           |

#### MECHANICAL SPECIFICATION



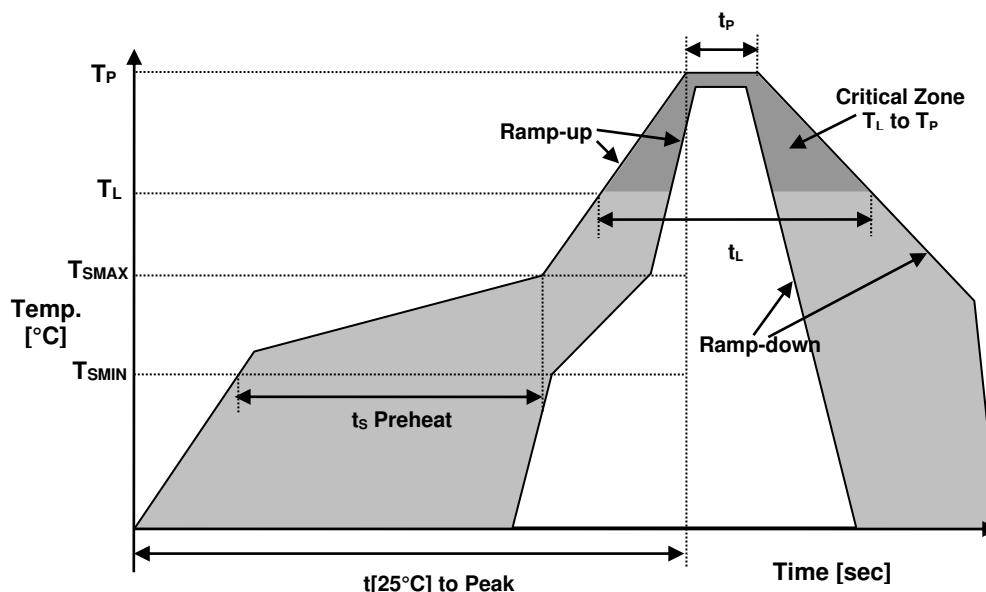
#### OUTLINE TOLERANCE

IF NOT SPECIFIED:  
±0.015" / 0.4mm

#### PIN FUNCTIONS:

- [1] NC
- [2] GND
- [3] OUTPUT
- [4] VCC

#### REFLOW PROFILE



| Reflow profile                                 |                   |              |
|--|-------------------|--------------|
| Temperature Min Preheat                        | T <sub>SMIN</sub> | 150°C        |
| Temperature Max Preheat                        | T <sub>SMAX</sub> | 200°C        |
| Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> ) | t <sub>s</sub>    | 60-180 sec.  |
| Temperature                                    | T <sub>L</sub>    | 217°C        |
| Peak Temperature                               | T <sub>P</sub>    | 260°C        |
| Ramp-up rate                                   | R <sub>UP</sub>   | 3°C/sec max. |
| Ramp-down rate                                 | R <sub>DOWN</sub> | 6°C/sec max. |
| Time within 5°C of Peak Temperature            | t <sub>p</sub>    | 10 sec.      |
| Time t[25°C] to Peak Temperature               | t[25°C] to Peak   | 480 sec.     |
| Time   | t <sub>L</sub>    | 60-150 sec.  |

#### ENVIRONMENTAL

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





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**TCXO**

**RTX-104BD3C-S-26.000-TR**

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## • MARKING

Rx26.00

•BDCyw

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    |      |      |

## • APPROVAL

| RALTRON      |                    |
|--------------|--------------------|
| DRAWN BY:    | AR, June 01, 2021  |
| APPROVED BY: | CP, June 01, 2021  |
| REVISION:    | A, Initial Release |

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