# RTV-2016AF3NY-S-19.200-TR Datashee


https://www.DiGi-Electronics.com

| | |
|---|---|
| DiGi Electronics Part Number | RTV-2016AF3NY-S-19.200-TR-DG |
| Manufacturer | Raltron Electronics |
| Manufacturer Product Number | RTV-2016AF3NY-S-19.200-TR |
| Description | XTAL OSC VCTCXO 19.2MHZ 1.8V CLP |
| Detailed Description | 19.2 MHz VCTCXO Clipped Sine Wave Oscillator 1.8 V 4-SMD, No Lead |

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RFQ Email: Info@DiGi-Electronics.com

## Purchase and inquiry

| Manufacturer Product Number: | Manufacturer: |
| --- | --- |
| RTV-2016AF3NY-S-19.200-TR | Raltron Electronics |
| Series: | Product Status: |
| RTV-2016 | Active |
| Base Resonator: | Type: |
| Crystal | VCTCXO |
| Frequency: | Function: |
| 19.2 MHz | - |
| Output: | Voltage - Supply: |
| Clipped Sine Wave | 1.8V |
| Frequency Stability: | Absolute Pull Range (APR): |
| ±500ppb | - |
| Operating Temperature: | Spread Spectrum Bandwidth: |
| -30°C ~ 85°C | - |
| Current - Supply (Max): | Ratings: |
| 2mA | - |
| Mounting Type: | Package / Case: |
| Surface Mount | 4-SMD, No Lead |
| Size / Dimension: | Height - Seated (Max): |
| 0.079" L x 0.063" W (2.00mm x 1.60mm) | 0.037" (0.95mm) |
| Current - Supply (Disable) (Max): | |
| - | |

## Environmental & Export classification

| RoHS Status: | Moisture Sensitivity Level (MSL): |
| --- | --- |
| ROHS3 Compliant | 1 (Unlimited) |
| REACH Status: | ECCN: |
| REACH Unaffected | EAR99 |
| HTSUS: | |
| 8542.39.0001 | |

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# TCXO

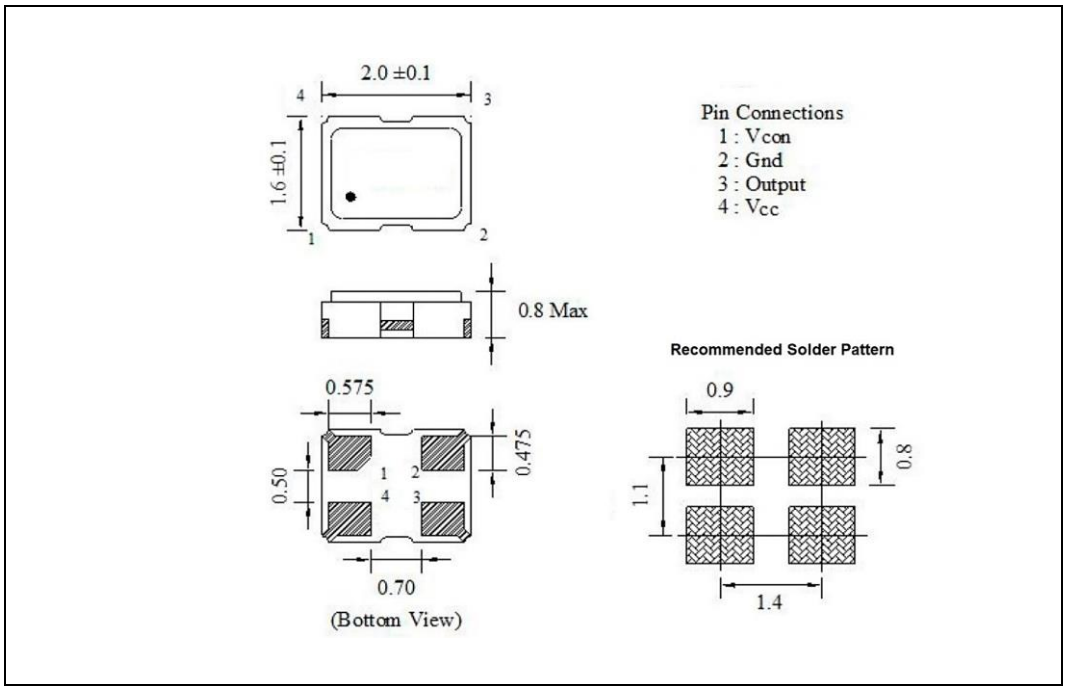
## RTV-2016AF3NY-S-19.200-TR



## ELECTRICAL SPECIFICATION

| PARAMETER | SYMBOL | CONDITIONS | VALUE | UNIT |
|---|---|---|---|---|
| Nominal Frequency | fo | Vcc ±5% | 19.200 | MHz |
| Supply voltage, nom. | $V_{CC}$ | Vcc ±5% | 1.7-3.46 | VDC |
| Supply current, max | $I_S$ | Vcc ±5% | 1.5 | mA |
| Operating temperature | Ta | | -30 ~ +85 | °C |
| Storage temperature | T(stg) | Absolute max | -40 ~ +90 | °C |
| Frequency Stability<br>vs. Temperature, Max<br>vs. Supply Voltage<br>vs. Load<br>vs. Aging Max | <br>Δf/fo(Ta)<br>$\Delta f/f_V$<br>$\Delta f/f_L$<br>Δf/fo(year) | <br>Reference to +25°±2°C (-30 TO 85°C)<br>Vcc ±5%<br>Load ±10%<br>Per Year at +25°C ± 2°C | <br>±0.5<br>±0.2<br>±0.1<br>±1.0 | <br>ppm<br>ppm<br>ppm<br>ppm |
| Initial Frequency Calibration, Max | $f_C$ | Measured at 25°C, Reference to fo | ±2.0 | ppm |
| Output Level, Clipped Sine Wave | - | 10K Ohms // 10 pF ±10% | 0.2 | $V_{P-P}$ |
| Voltage Control Range | $V_C$ | $V_C$ = 0.3Vdc to 1.5Vdc | ±8 to ±15 | ppm |
| Harmonics | | | -5 | dBc |
| Start up time, Max | $t_s$ | $V_{OUT}$ ≥ 90% $V_{P-P}$ | 2.0 | ms |

## MECHANICAL SPECIFICATION



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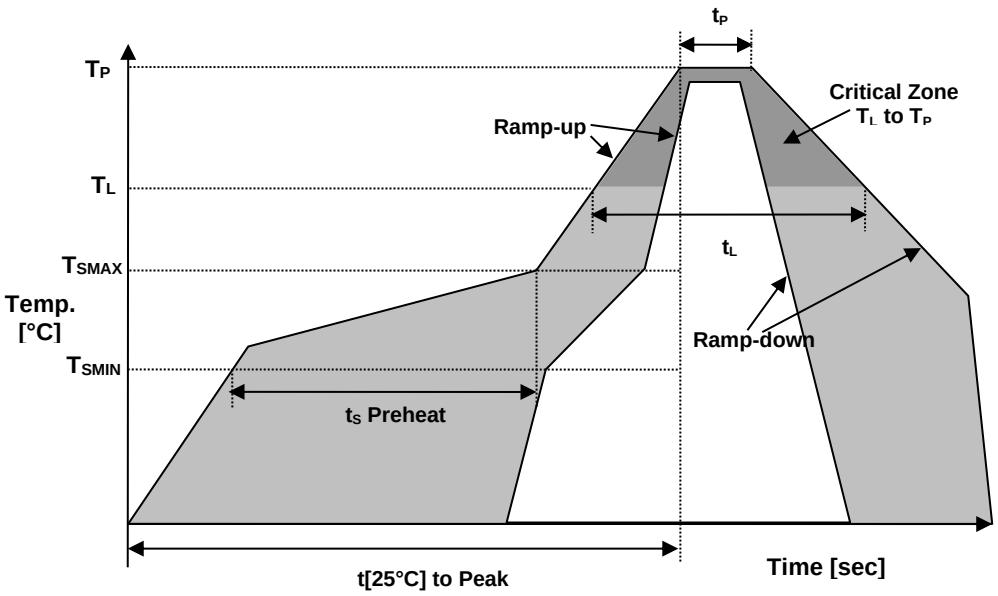
# TCXO

## RTV-2016AF3NY-S-19.200-TR



## ■ 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 |
| REACH-SVHC | Compliant |
| RoHS | Compliant |
| TERMINATION FINISH | Au |

RoHS Compliant

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# TCXO

## RTV-2016AF3NY-S-19.200-TR



## • MARKING

Rx19.2
•AF8yw

x – Internal Production ID code
y – Year code
w – Week code

| YEAR CODE | |
|---|---|
| Year | Code |
| 2019 | 9 |
| 2020 | 0 |
| 2021 | 1 |
| 2022 | 2 |
| 2023 | 3 |
| 2024 | 4 |
| 2025 | 5 |
| 2026 | 6 |
| 2027 | 7 |
| 2029 | 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

| RALTRON | |
|---|---|
| DRAWN BY: | CP, November 04, 2020 |
| APPROVED BY: | JI, November 04, 2020 |
| REVISION: | A, Initial Release<br>B, Updated mechanical specifications<br>KJ 2/10/21 |

# OUR CERTIFICATE

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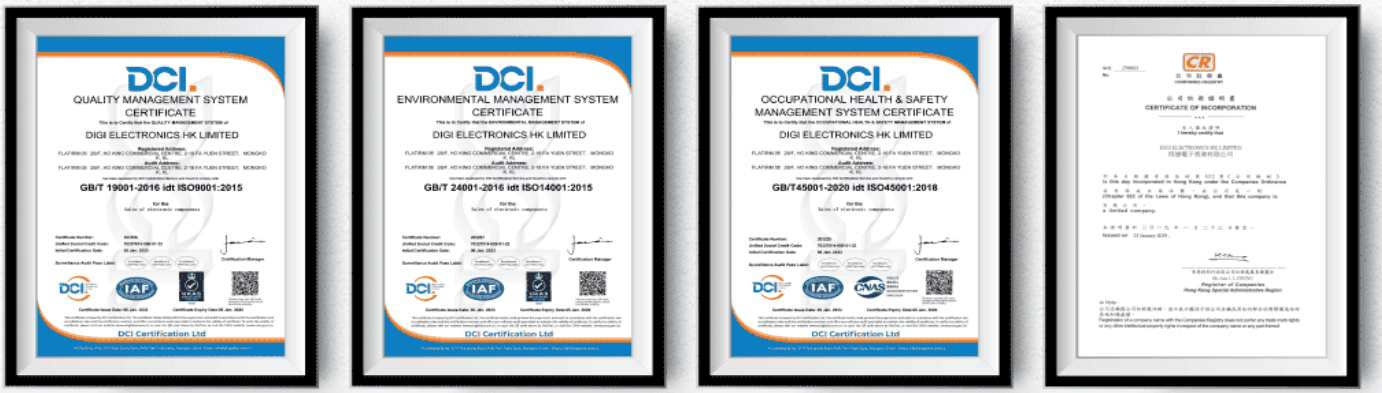



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DiGi is a global authorized distributor of electronic components.