

SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR WITH VOLTAGE CONTROL OPTION

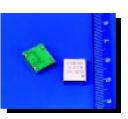
SERIES RTX-204 AND RTV-204

FEATURES

- ULTRA MINIATURE PACKAGE
- EXCELLENT FREQUENCY STABILITY AND AGING
- 5.0 V OR 3.0 V SUPPLY VOLTAGE

SPECIFICATIONS

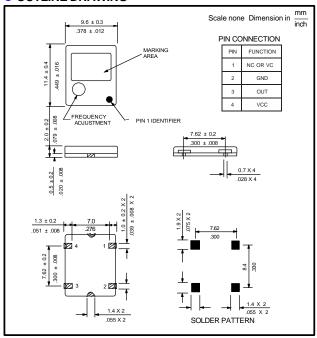
SERIES	RTX-204	RTV-204	RTV-204					
FREQUENCY RANGE	10.00 MHz TO 20.00MHz							
FREQUENCY STABILITY OVER TEMPERATURE RANGE†	±2.5 PPM							
OPERATING TEMPERATURE RANGE	-30°C TO +75°C							
FREQUENCY STABILITY VS. SUPPLY VOLTAGE VARIATION								
AGING	±0.8 PPM MAX PER YEAR							
SUPPLY VOLTAGE†	+3.0 VDC ±5%							
OUTPUT LEVEL	0.8V p-p MIN AT 3.0 VDC ±5%							
LOAD	10 K OHM // 10pF							
OUTPUT WAVEFORM†	CLIPPED SINE (CMOS/TTL AVAILABLE††)							
CURRENT	2.0 mA MAX							
FREQUENCY ADJUSTMENT	±3 PPM MIN TRIMMERLESS							
VOLTAGE CONTROL RANGE†	N/A	W:±5 PPM TO ±10 PPM (+1.5V ±1V)	N:±8 PPM TO ±14 PPM (+1.5V ±1V)					



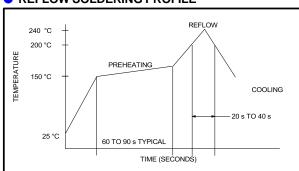
† OTHER STABILITIES OVER TEMPERATURE, +5.0 V SUPPLY, WAVEFORMS AND FREQUENCY DEVIATIONS ARE AVAILABLE. CONSULT RALTRON FOR OTHER SPECIFICATIONS.

†† CMOS/TTL OUTPUT IS AVAILABLE WITH 2.5 mm MAX HEIGHT ONLY.

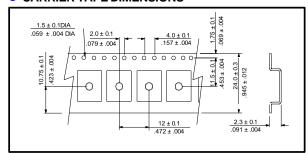
OUTLINE DRAWING



REFLOW SOLDERING PROFILE



CARRIER TAPE DIMENSIONS



PACKAGING

330 mm REEL DIAMTER, 24 mmTAPE WIDTH, 12 mm PITCH, QUANTITY: 2000 PIECES PER REEL

PART NUMBERING SYSTEM

TYPE	REVISION		SERIES	FREQUENCY STABILITY	TEMPERATURE RANGE	VOLTAGE	FREQUENCY CONTROL (RTV ONLY)		TRIMMER	WAVEFORM		FREQUENCY
RTX RTV	TBD*	-	204	E: ±2.5 PPM	F1: -30°C TO +75°C	3: +3.0 VDC ± 5%	W: ±5.0 PPM TO ±10.0 PPM (+1.5 V ±1.0 V) N: ±8 PPM TO ±14 PPM (+1.5 V ±1.0 V)	-	Т	S: CLIPPED SINE	-	IN MHz

EXAMPLE: RTV*-204EF13X-TS-20.000

^{*} REVISION IS ASSIGNED DURING MANUFACTURING



SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR WITH VOLTAGE CONTROL OPTION

SERIES RTX-206 AND RTV-206

• FEATURES

- ULTRA MINIATURE PACKAGE
- EXCELLENT FREQUENCY STABILITY AND AGING
- 5.0 V OR 3.0 V SUPPLY VOLTAGE

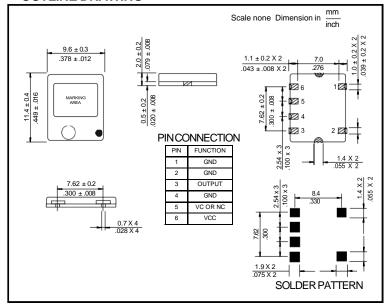
SPECIFICATIONS

RTX-206	RTV-206	RTV-206						
10.00 MHz TO 20.00MHz								
±2.5 PPM								
	-30°C TO +75°C							
	±0.3 PPM AT 3.0V ±5%							
±0.8 PPM MAX PER YEAR								
+3.0 VDC ±5%								
0.8V p-p MIN AT 3.0 VDC ±5%								
10 K OHM // 10pF								
CLIPPED SINE (CMOS/TTL AVAILABLE††)								
2.0 mA MAX								
±3 PPM MIN TRIMMERLES								
N/A W:±5 PPM TO ±10 PPM (+1.5V ±1V) N:±8 PPM TO ±14 PPM (+1								
		10.00 MHz TO 20.00MI ±2.5 PPM -30°C TO +75°C ±0.3 PPM AT 3.0V ±5 ±0.8 PPM MAX PER YE +3.0 VDC ±5% 0.8V p-p MIN AT 3.0 VDC 10 K OHM // 10pF CLIPPED SINE (CMOS/TTL AVA 2.0 mA MAX ±3 PPM MIN						

† OTHER STABILITIES OVER TEMPERATURE, +5.0 V SUPPLY, WAVEFORMS AND FREQUENCY DEVIATIONS ARE AVAILABLE. CONSULT RALTRON FOR OTHER SPECIFICATIONS.

†† CMOS/TTL OUTPUT IS AVAILABLE WITH 2.5 mm MAX HEIGHT ONLY.

OUTLINE DRAWING



PACKAGING

330 mm REEL DIAMETER, 24 mmTAPE WIDTH, 12 mm PITCH QUANTITY: 2000 PIECES PER REEL

TYPE	REVISION		SERIES	FREQUENCY STABILITY	TEMPERATURE RANGE	VOLTAGE	FREQUENCY CONTROL (RTVXO ONLY)		TRIMMER	WAVEFORM		FREQUENCY
RTX RTV	TBD*	-	206	E: ±2.5 PPM	F1 :-30°C TO +75°C	3: +3.0 VDC ± 5%	W: ±5.0 PPM TO ±10.0 PPM (+1.5 V ±1.0 V) N: ±8 PPM TO ±14 PPM (+1.5 V ±1.0 V)	-	Т	S: CLIPPED SINE	-	IN MHz

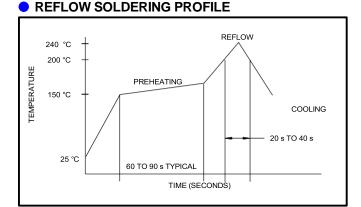
EXAMPLE: RTV*-206EF13W-TS-16.000

PART NUMBERING SYSTEM

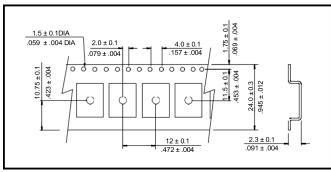
PRECLIENCY TEMPERATURE

FREQUENCY CONTROL

Raltron Electronics/RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort to ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided for reference purposes only and is subject to change, correction or revision, at any time without notice. Raltron/RAMI Tech does not assume any liability and in application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages.



CARRIER TAPE DIMENSIONS



^{*} REVISION IS ASSIGNED DURING MANUFACTURING