

## SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR WITH VOLTAGE CONTROL OPTION

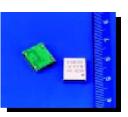
### SERIES RTX-204 AND RTV-204

### • FEATURES

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

### SPECIFICATIONS

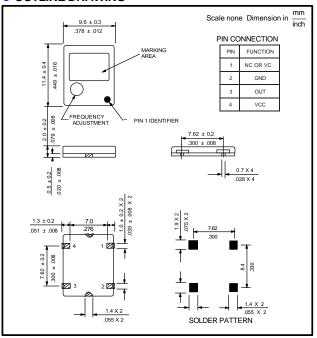
SERIES	RTX-204	RTV-204	RTV-204					
FREQUENCY RANGE	10.00 MHz TO 20.00MHz							
FREQUENCY STABILITY OVER TEMPERATURE RANGE†	±2.5 PPM							
OPERATING TEMPERATURE RANGE	ING TEMPERATURE RANGE -30°C TO +75°C							
FREQUENCY STABILITY VS. SUPPLY VOLTAGE VARIATION	±0.3 PPM AT 3.0V ±5%							
AGING	EAR							
SUPPLY VOLTAGE†								
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)	,					



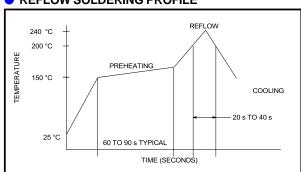
† OTHER STABILITIES OVER TEMPERATURE, +5.0 V SUPPLY, WAVEFORMS AND FREQUENCY DEVIATIONS ARE AVAILABLE. CONSULT RALTRON FOR OTHER SPECIFICATIONS.

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

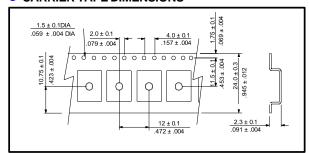
### OUTLINE DRAWING



### 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

<sup>\*</sup> 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

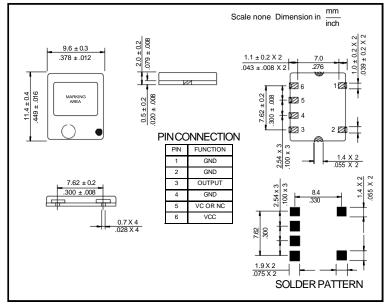
### SPECIFICATIONS

1X1X-200	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 TRIMMI							
N/A	W:±5 PPM TO ±10 PPM (+1.5V ±1V)	N:±8 PPM TO ±14 PPM (+1.5V ±1V)						
	RTX-206	10.00 MHz TO 20.00MH  ±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

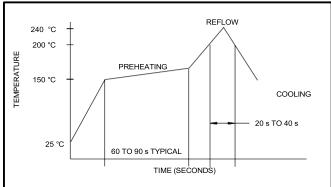
### PART NUMBERING SYSTEM

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	TYPE	REVISION		SERIES	FREQUENCY STABILITY	TEMPERATURE RANGE	VOLTAGE	FREQUENCY CONTROL (RTVXO ONLY)		TRIMMER	WAVEFORM		FREQUENCY
Ī	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

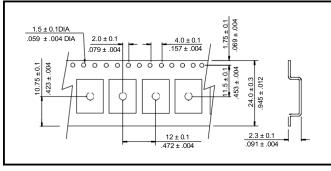
EXAMPLE: RTV\*-206EF13W-TS-16.000

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## REFLOW SOLDERING PROFILE



### CARRIER TAPE DIMENSIONS



<sup>\*</sup> REVISION IS ASSIGNED DURING MANUFACTURING