

SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR WITH VOLTAGE CONTROL OPTION

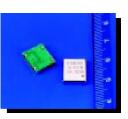
SERIES RTX-204 AND RTV-204

• FEATURES

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

SPECIFICATIONS

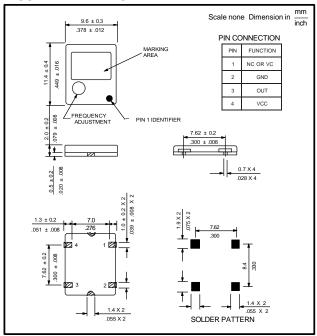
SERIES	RTX-204	RTV-204	RTV-204					
FREQUENCY RANGE	10.00 MHz TO 20.00MHz							
FREQUENCY STABILITY OVER TEMPERATURE RANGE†								
PPERATING TEMPERATURE RANGE -30°C TO +75°C								
FREQUENCY STABILITY VS. SUPPLY VOLTAGE VARIATION ±0.3 PPM AT 3.0V ±5%								
AGING ±0.8 PPM MAX PER YEAR								
SUPPLY 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		TRIMMERLESS						
VOLTAGE CONTROL RANGE†	N/A	W:±5 PPM TO ±10 PPM (+1.5V ±1V)	N:±8 PPM TO ±14 PPM (+1.5V ±1V					



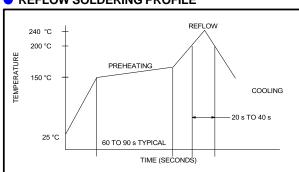
† OTHER STABILITIES OVER TEMPERATURE, +5.0 V SUPPLY, WAVEFORMS AND FREQUENCY DEVIATIONS ARE AVAILABLE. CONSULT RALTRON FOR OTHER SPECIFICATIONS.

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

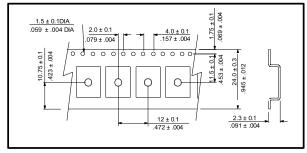
OUTLINE DRAWING



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



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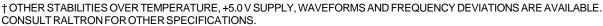
SERIES RTX-206 AND RTV-206

FEATURES

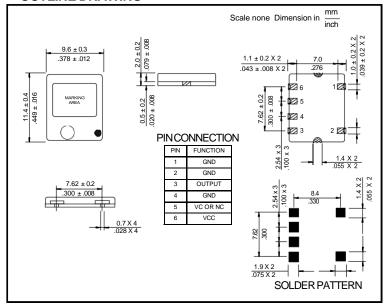
- ULTRA MINIATURE PACKAGE
- EXCELLENT FREQUENCY STABILITY AND AGING
- 5.0 V OR 3.0 V SUPPLY VOLTAGE

SPECIFICATIONS

SERIES	RTX-206	RTV-206	RTV-206					
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 ±0.3 PPM AT 3.0V ±5%								
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†	OUTPUT WAVEFORM† CLIPPED SINE (CMOS/TTL AVAILABLE††)							
CURRENT	URRENT 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)					



OUTLINE DRAWING



PACKAGING

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

PART NUMBERING SYSTEM

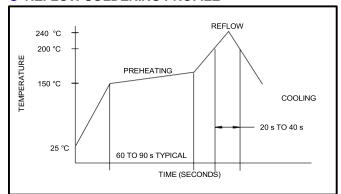
TYPE	REVISION	SERIES	FREQUENCY STABILITY	TEMPERATURE RANGE	VOLTAGE	FREQUENCY CONTROL (RTVXO ONLY)		TRIMMER	WAVEFORM		FREQUENCY
RTX RTV	TBD*	206	E: ±2.5 PPM	F1 :-30°C TO +75°C	3: +3.0 VDC ± 5%	W: ±5.0 PPM TO ±10.0 PPM (+1.5 V ±1.0 V) N: ±8 PPM TO ±14 PPM (+1.5 V ±1.0 V)	-	Т	S: CLIPPED SINE		IN MHz

EXAMPLE: RTV*-206EF13W-TS-16.000

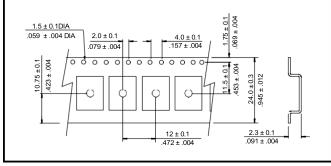


†† CMOS/TTL OUTPUT IS AVAILABLE WITH 2.5 mm MAX HEIGHT ONLY.

REFLOW SOLDERING PROFILE



CARRIER TAPE DIMENSIONS



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