# RAMI TECHNOLOGY

## 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

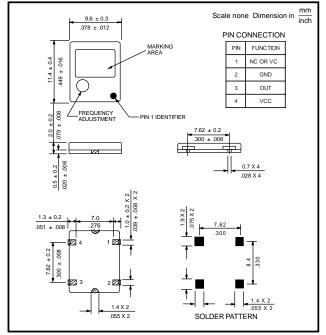
### SPECIFICATIONS

SERIES	RTX-204	RTV-204	RTV-204
FREQUENCY RANGE		10.00 MHz TO 20.00M	Hz
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 YE	AR
SUPPLY VOLTAGE†		+3.0 VDC ±5%	
OUTPUT LEVEL		0.8V p-p MIN AT 3.0 VDC	2 ±5%
LOAD		10 K OHM // 10pF	
OUTPUT WAVEFORM†		CLIPPED SINE (CMOS/TTL AV	AILABLE††)
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)

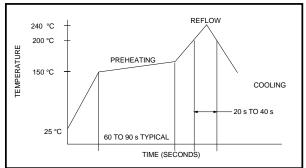
† OTHER STABILITIES OVER TEMPERATURE, +5.0 V SUPPLY, WAVEFORMS AND FREQUENCY DEVIATIONS ARE AVAILABLE.

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

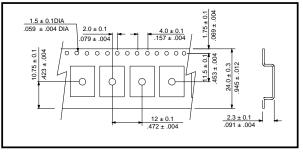
#### **OUTLINE DRAWING**



### 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)	1	Т	S: CLIPPED SINE	IN MHz

EXAMPLE: RTV\*-204EF13X-TS-20.000

\* REVISION IS ASSIGNED DURING MANUFACTURING

RAMI TECHNOLOGY 10651 NW 19th St. Miami, Florida 33172 U.S.A. Tel: 305-593-8000 Fax: 305-593-8487 e-mail: sales@ramitechnology.com web: www.ramitechnology.com