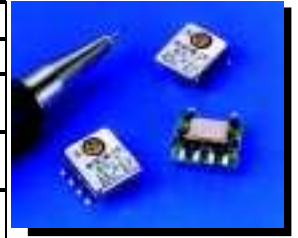


SERIES RTX-119 AND RTV-119

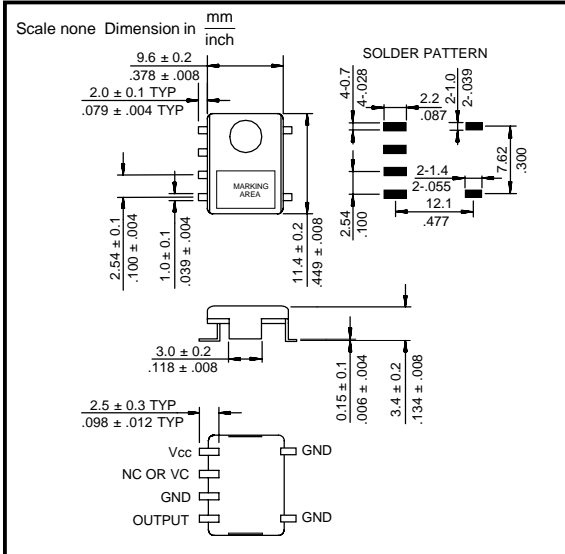
- **FEATURES**
 - LOW PROFILE AND SMALL FOOTPRINT
 - EXCELLENT FREQUENCY STABILITY AND AGING
 - 3.0 V OR 5.0 VOLT SUPPLY
 - VOLTAGE CONTROL OPTION
- **SPECIFICATIONS**

| SERIES | | RTX-119 | RTV-119 |
|---|-----------|--|---|
| FREQUENCY RANGE | | 9.60MHz TO 32.00 MHz | 9.60 MHz TO 32.00 MHz |
| FREQUENCY STABILITY OVER TEMPERATURE RANGE† | | ±2.5 PPM OVER -30°C TO +75°C | ±2.5 PPM OVER -30°C TO +75°C |
| FREQUENCY STABILITY OVER SUPPLY VOLTAGE VARIATION | | ±0.2 PPM AT 5.0 V ± 5% ±0.2 PPM AT 3.0 V ± 5% | ±0.2 PPM AT 5.0 V ± 5% ±0.2 PPM AT 3.0 V ± 5% |
| FREQUENCY STABILITY OVER LOAD VARIATION | | ±0.3 PPM AT 10 KOHM // 10 pF | ±0.3 PPM AT 10 KOHM // 10 pF |
| AGING | | ±1 PPM PER YEAR MAX | ±1 PPM PER YEAR MAX |
| OPERABLE TEMPERATURE RANGE | | -40°C TO +85°C | -40°C TO +85°C |
| INPUT | VOLTAGE | +5.0 VDC ± 5% VDC OR +3.0 VDC ± 5% | +5.0 VDC ± 5% VDC OR +3.0 VDC ± 5% |
| | CURRENT | 2.0 mA MAX (9.60 MHz TO 19.999 MHz) 3.0 mA MAX (20.00 MHz TO 32.00 MHz) | 2.0 mA MAX (9.60 MHz TO 19.999 MHz) 3.0 mA MAX (20.00 MHz TO 32.00 MHz) |
| OUTPUT | WAVEFORM† | CLIPPED SINEWAVE | CLIPPED SINEWAVE |
| | LEVEL | 1.0 V P-P FOR +5.0 VDC ± 5% 0.8 V P-P FOR +3.0 VDC ± 5% | 1.0 V P-P FOR +5.0 VDC ± 5% 0.8 V P-P FOR +3.0 VDC ± 5% |
| | LOAD | 10 K OHM // 10 pF | 10 K OHM // 10PF |
| FREQUENCY ADJUSTMENT | | ±3 PPM MIN BY INTERNAL TRIMMER | ±3 PPM MIN BY INTERNAL TRIMMER |
| FREQUENCY DEVIATION† | | N/A | S: ±4.5 PPM TO ±7.5 PPM AT +1.5 V ±1.0 VDC Y: ±8 PPM TO ±15 PPM AT +2.5 V ±2.0 VDC |



† OTHER STABILITIES OVER TEMPERATURE, WAVEFORMS AND FREQUENCY DEVIATIONS ARE AVAILABLE.

● OUTLINE DRAWING



● PACKAGING

180 mm REEL DIAMETER, 24 mm TAPE WIDTH, 16 mm PITCH
QUANTITY: 1000 PIECES PER REEL

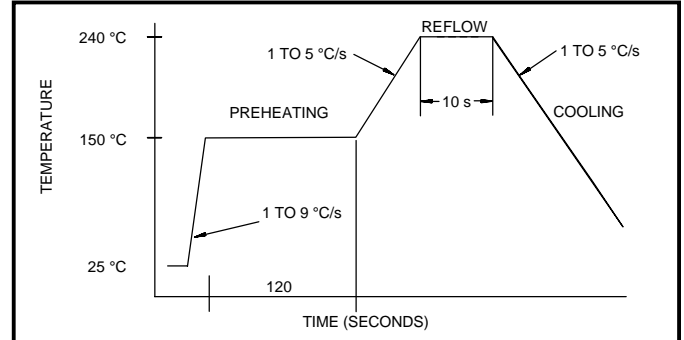
● PART NUMBERING SYSTEM

| TYPE | REVISION | SERIES | FREQUENCY STABILITY | TEMPERATURE RANGE | VOLTAGE | FREQUENCY CONTROL (RTV ONLY) | TRIMMER | WAVEFORM | FREQUENCY |
|------------|----------|--------|---------------------|-------------------|--------------------------------------|---|---------|-----------------|-----------|
| RTX RTV | TBD* | 119 | E: ±2.5 PPM | F1: -30°C TO 75°C | 3: +3.0 VDC ± 5% 5: +5.0 VDC ± 5% | S: ±4.5 PPM TO ±7.5 PPM (+1.5 V ±1.0 V) Y: ±8 PPM TO ±15 PPM (+2.5 V ±2.0 V) | T | S: CLIPPED SINE | IN MHZ |

EXAMPLE: RTV*-119EF13S-TS-14.31818

* REVISION IS ASSIGNED DURING MANUFACTURING

● REFLOW SOLDERING PROFILE



● CARRIER TAPE DIMENSIONS

