

SERIES H13

- **FEATURES**
 - LOW PROFILE
 - TIGHT TOLERANCE AND STABILITY TO ± 10 PPM
 - WIDE FREQUENCY RANGE

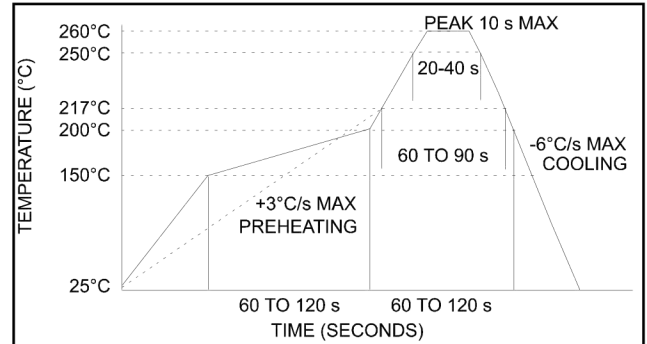
- **SPECIFICATIONS**

| | |
|--------------------------------------|---|
| FREQUENCY RANGE | 6.00 MHz TO 100.00 MHz |
| MODE OF OSCILLATION | (6.00 TO 50.00 MHz) FUNDAMENTAL (40.00 TO 100.00 MHz) THIRD OVERTONE |
| FREQUENCY TOLERANCE AT 25°C | ± 50 PPM MAXIMUM (± 10 PPM, ± 30 PPM AVAILABLE) |
| FREQUENCY STABILITY OVER TEMPERATURE | ± 50 PPM MAXIMUM (± 10 PPM, ± 30 PPM AVAILABLE) |
| OPERATING TEMPERATURE RANGE | -10°C TO +60°C STANDARD -30°C TO +85°C EXTENDED |
| STORAGE TEMPERATURE RANGE | -40°C TO +85°C |
| AGING | ± 5 PPM PER YEAR MAX. |
| LOAD CAPACITANCE | 6 pF TO 32 pF OR SERIES |
| EQUIVALENT SERIES RESISTANCE (ESR) | SEE TABLE |
| SHUNT CAPACITANCE | 7.0 pF MAXIMUM |
| DRIVE LEVEL | 1 μ W TO 100 μ W |
| REFLOW CONDITIONS | 260° C FOR 10 s MAX 2 REFLAWS MAX |

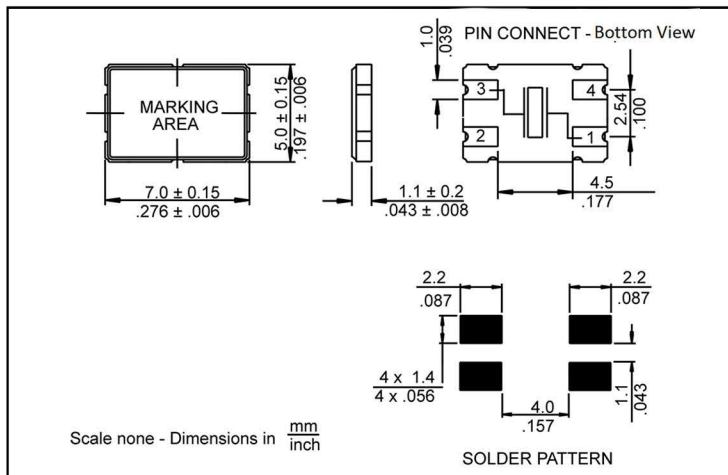


| FREQUENCY (FUND) | ESR (OHM) MAX | FREQUENCY (FUND) | ESR (OHM) MAX | FREQUENCY (3OT) | ESR (OHM) MAX |
|------------------|---------------|------------------|---------------|-----------------|---------------|
| 6.00 | 100 | 23.040 | 35 | 40.00 | 65 |
| 7.60 | 60 | 24.00 | 35 | 40.320 | 65 |
| 8.00 | 60 | 24.576 | 35 | 44.2368 | 65 |
| 10.00 | 60 | 27.00 | 35 | 52.416 | 65 |
| 12.288 | 60 | 28.00 | 35 | 56.448 | 65 |
| 14.31818 | 45 | 28.63636 | 35 | 66.667 | 65 |
| 14.7456 | 45 | 29.4912 | 35 | 70.00 | 65 |
| 15.00 | 45 | 32.00 | 35 | 80.00 | 65 |
| 15.360 | 45 | 36.00 | 35 | 90.00 | 65 |
| 16.00 | 35 | 40.00 | 35 | 92.00 | 65 |
| 16.9344 | 35 | 40.320 | 35 | 98.304 | 65 |
| 18.432 | 35 | 48.00 | 35 | 100.00 | 65 |
| 19.6608 | 35 | 49.152 | 35 | | |
| 20.00 | 35 | 50.00 | 35 | | |

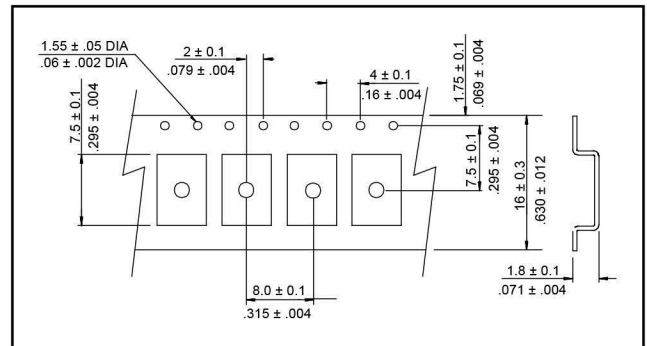
- **SOLDER REFLOW PROFILE**



- **OUTLINE DRAWING**



- **CARRIER TAPE DIMENSIONS**



- **PACKAGING**

255mm REEL DIAMETER
16mm TAPE WIDTH, 8mm PITCH
QUANTITY: 1000 PIECES PER REEL

- **PART NUMBERING SYSTEM**

| TYPE | FREQUENCY | LOAD CAPACITANCE | MODE | TOLERANCE/STABILITY (PPM/PPM) | OPERATING TEMPERATURE | TAPE & REEL |
|------|-----------|--------------------------------------|---|---|--|-------------|
| H13 | IN MHz | 6 to 32 pF for PARALLEL S for SERIES | Blank for < 24.576 MHz F for ≥ 24.576 MHz 3OT THIRD OVERTONE | Blank for MAXIMUM PPMPM for OTHER Example: 1030, 3030 | Blank for STANDARD EXT for EXTENDED | TR |

EXAMPLE: H13-32.000-18-F-1030-TR