

OVEN CONTROLLED CRYSTAL OSCILLATOR

| | | |
|------------------|---|-------------------------|
| Features: | High stability vs. temperature up to $\pm 3E-8$ | Frequency range: 1—150M |
|------------------|---|-------------------------|

OPTION GUIDE: OX33---38---H---12---JT---[SIN]---13M

| Temperature stability | Aging | Output | Supply Voltage |
|--|---|--------------|--------------------------------------|
| 38: $\pm 3E-8$ 58: $\pm 5E-8$ 17: $\pm 1E-7$ 27: $\pm 2E-7$ 37: $\pm 3E-7$ 57: $\pm 5E-7$ | I: $\pm 3E-7$ /year H: $\pm 2E-7$ /year G: $\pm 1E-7$ /year | SIN HCMOS | 5: 5V $\pm 5\%$ 12: 12V $\pm 5\%$ |

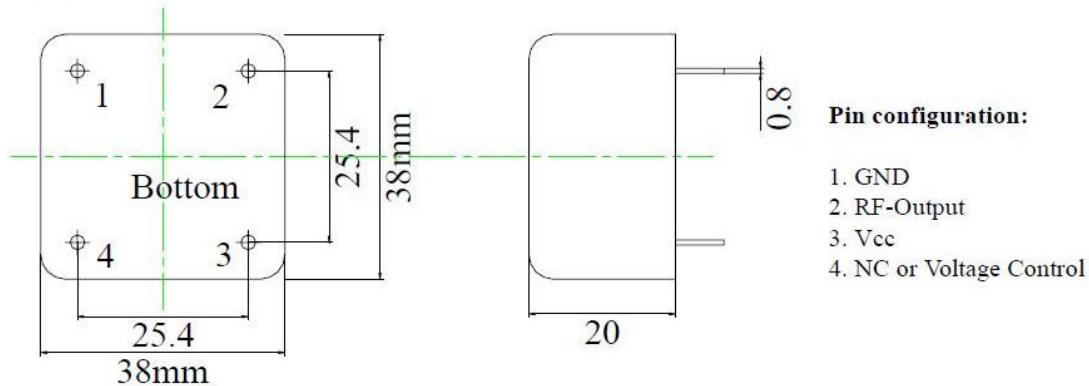
Temperature choice

| A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | T | U | W | X |
|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -60 | -55 | -50 | -45 | -40 | -30 | -20 | -10 | 0 | +10 | +25 | +40 | +45 | +50 | +55 | +60 | +65 | +70 | +75 | +80 | +85 |

SPECIFICATION

| | | |
|---|---------------------------------------|-----------------------------------|
| Output | SIN | Square Form |
| Duty cycle | × | 40...60% |
| Daily fluctuation | $\leq \pm 0.02$ ppm | |
| Frequency stability vs. load changes | $< \pm 1E-8 @ 50 \Omega \pm 10\%$ | $< \pm 1E-8 @ 1k \Omega \pm 10\%$ |
| Frequency stability vs. power supply changes | $< \pm 1E-8 @ V_{cc} \pm 10\%$ | |
| Peak current during warm-up @ 25°C | < 500 mA | |
| Frequency pulling range | $> \pm 5E-6 @ 0.5V \text{ --- } 4.5V$ | |
| Linearity | $\pm 10\%$ | |
| Phase noise, typical for 10M | | |
| 1 Hz | -90 dBc/Hz | |
| 10 Hz | -120 dBc/Hz | |
| 100 Hz | -140 dBc/Hz | |
| 1k Hz | -150 dBc/Hz | |
| 10k Hz | -155 dBc/Hz | |
| Harmonic suppression | 45dB | × |
| Spurious suppression | 70dB | |
| Input impedance | 100k Ω | |
| Storage temperature range | -40...+85°C | |

Package



Note:

Not all combinations are available, any requests, please consult factory