

DOUBLE OVEN ULTRA PRECISION OCXO MV360

Features:

- High stability vs. temperature: up to 1×10^{-11}
- Standard frequency: 10.0 MHz
- Package size: 51x51x19 mm
- High long-term stability: up to $\pm 1 \times 10^{-8}$ /year
- Power supply: 5 V and 12 V
- Available as RoHS
- Applications: 5G, Telecommunication, Test & Measurement

| Supply voltage |
|----------------|
| 5 V |
| 12 V |

ORDERING GUIDE: MV360-C 003 D-12V-10.0M

| Availability of certain stability vs. operating temperature range | | $\pm 1 \times 10^{-10}$ | | | | |
|---|-------------|-------------------------|-----|-----|-----|-----|
| | | 01 | 005 | 003 | 002 | 001 |
| A | 0...+55°C | A | A | A | A | A |
| B | -10...+60°C | A | A | A | A | A |
| C | -20...+70°C | A | A | A | A | A |
| D | -40...+70°C | A | A | A | A | A |
| EU | -40...+75°C | A | A | A | A | A |
| EX* | -40...+85°C | A | A | A | A | A |
| Upon request: up to $< 1 \times 10^{-11}$ at any 20°C window | | | | | | |

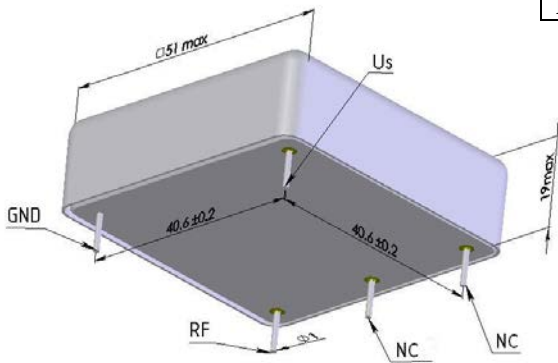
A – available

*for 5V only (operable for 12V with $< \pm 1.25 \times 10^{-8}$ vs. +75...+85°C, typ.)

| Availability of certain aging values for certain frequencies | | 10 MHz |
|--|------------------------------|--------|
| F | $\pm 5 \times 10^{-8}$ /year | A |
| E | $\pm 3 \times 10^{-8}$ /year | A |
| D | $\pm 2 \times 10^{-8}$ /year | A |
| C | $\pm 1 \times 10^{-8}$ /year | A |

| Phase noise, at offset | dBc/Hz |
|------------------------|------------------------|
| 1 Hz | <-100 |
| 10 Hz | <-130 |
| 100 Hz | <-150 |
| 1000 Hz | <-155 |
| 10000 Hz | <-155 (<-160 for 12 V) |

| | | |
|---|---------------------------|--------------|
| Short term stability (Allan deviation) per 1 sec: | < 2×10^{-12} | |
| Frequency stability vs. load changes ($\pm 5\%$) | < $\pm 1 \times 10^{-11}$ | |
| Frequency stability vs. power supply changes ($\pm 5\%$) | < $\pm 2 \times 10^{-11}$ | |
| Warm-up time within accuracy of $< \pm 5 \times 10^{-8}$ @ 25°C | <15 min. | |
| Power supply (Us) | 12V $\pm 5\%$ | 5V $\pm 5\%$ |
| Steady state current consumption @ +25°C | <300 mA | <800 mA |
| Peak current consumption during warm-up | <1 A | <2 A |



| | |
|----------------------|------------------|
| Output | SIN |
| Level | >300 mV RMS |
| Load | 50 Ohm $\pm 5\%$ |
| Harmonic suppression | >30 dBc |

| Vibrations: | |
|---------------------------|--------------------|
| Frequency range | 10-200 Hz |
| Acceleration | 5 g |
| Shock: | 75 g/ 3 ± 1 ms |
| Humidity @ 25°C | 98% |
| Storage temperature range | -55...+85°C |

Additional notes:

For non-standard operating temperature ranges please use the following two letters designations (first letter for the lower limit, second letter for the upper limit), °C:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 | +30 | +40 | +45 | +50 | +55 | +60 | +65 | +70 | +75 | +80 | +85 |