RELM componentes

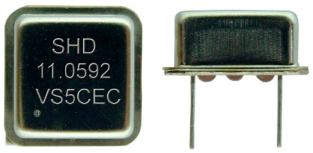
# SHOULDER

# VCXO-8 Oscillator

Lead free

## DESCRIPTION

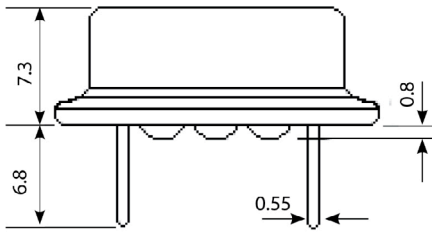
Standard 8 pin DIP Metal Package, High Performance, CMOS & TTL compatible
Pin # 4 case ground acts as shielding to minimize EMI
Radiation RoHS Compliant Standard.



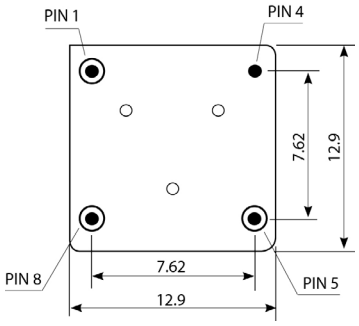

## ELECTRICAL SPECIFICATION

| | | |
|---|---|---|
| Frequency Range<br>Frequency over 40.000MHz, please consult factory | | 1MHz to 40MHz |
| Frequency Stability (all condition) | | ±10ppM to ±50ppM Maximum |
| Operating Temperature Range | | 0˚C to +70˚C Standard (or Optional) |
| Storage Temperature Range | | -40˚C to +85˚C |
| Input Voltage ($V_{DD}$) | | 5V ±5% or 3.3V ± 5% |
| Rise Time (tr) | 20% $V_{DD}$ ~ 80% $V_{DD}$ | ≤ 5nS |
| Fall Time (tf) | 80% $V_{DD}$ ~ 20% $V_{DD}$ | ≤ 5nS |
| Output Symmetry | A | 40 / 60% |
| | B | 45 / 55% (Optional) |
| Output Voltage | VOH | 90% $V_{DD}$ |
| | VOL | 10% $V_{DD}$ |
| Pullability | | ±50ppM, ±100ppM, ±200ppM |
| Output Load | | CL=15pF |
| Aging (at 25˚C) | | ±3ppM per year |

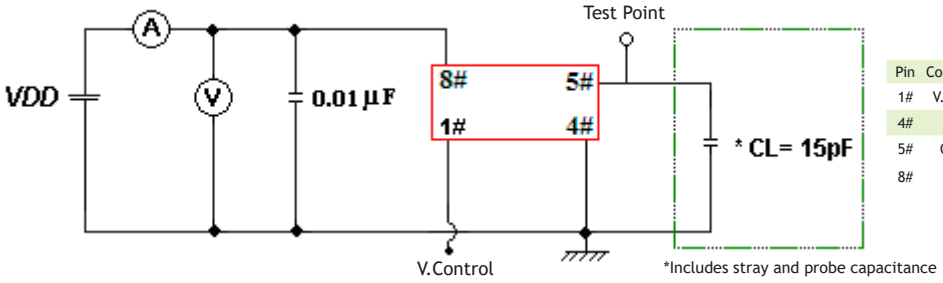
## MECHANICAL DIMENSIONS (all in mm)




| Pin | Function |
|---|---|
| 1 | NC ENABLE |
| 4 | GND |
| 5 | Output |
| 8 | +VDD |



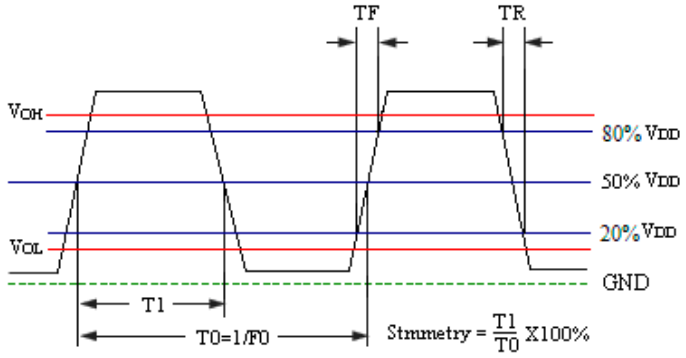

## TEST CIRCUIT




*Includes stray and probe capacitance

| Pin | Connection |
|---|---|
| 1# | V.Control |
| 4# | GND |
| 5# | Output |
| 8# | VDD |

## OUTPUT WAVEFORM




## PART NUMBERING SYSTEM (Example)

VCX08-11.0592-25-100-3.3-A-C-X

- Hold Type: VCXO-8
- Nominal Frequency (MHz): Enter the nominal frequency (3 digits after dot) or up to last significant digit different than zero)
- Frequency Stability (± ppm)
- Frequency Pullability (± ppm)
- Input Voltage (V): 3.3=3.3V, 5=5.0V
- Output Symmetry(%): A= 40/60%, B= 45/55%
- Operating Temperature Range (˚C): A= -20˚C to 70˚C, B= -10˚C to 60˚C, C= 0˚C to 70˚C, D= -30˚C to 80˚C, E= -40˚C to 85˚C
- Options (can be blank): S= Standard, X=Additional Specifications


RELM - SHOULDER Brasil

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