



Revised in March 2015

## MXOC series - High stability low phase-noise OCXOs

### Features

High temperature stability: (up to  $\pm 1$  ppb over  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ )  
 Very low phase noise: (to  $-175$  dBc/Hz, floor)  
 Low aging: to  $0.2$  ppb/day and  $20$  ppb/year  
 Fundamental operation at 5 through 150 MHz  
 Compact packaging

### Typical Applications

Cellular Base Stations  
 Instrumentation  
 Stratum 3E clock systems  
 Microwave communication  
 Radar reference

Packaging type E: "Europack"  
 36x27x10.6 mm

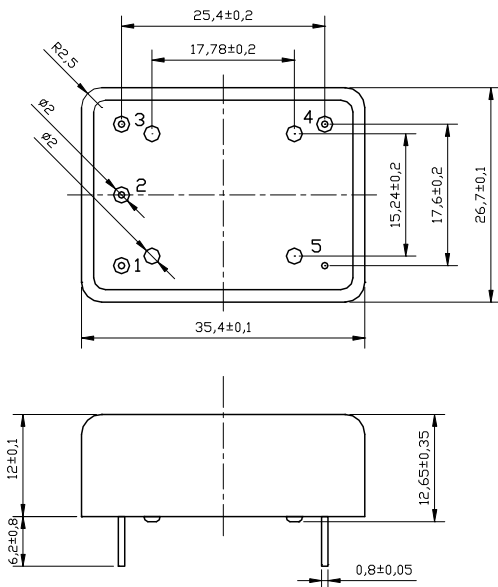


RoHS compliant

### Description

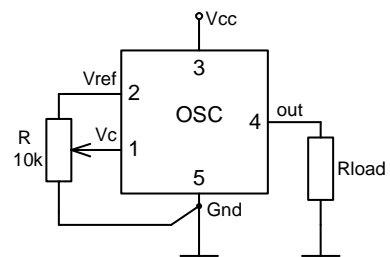
The MXOC series oven-controlled crystal oscillators are intended for wide applications where high temperature stability, low aging, low phase-noise along and compact sizes are major requirements. The module concept of the OCXOs design allowed realization of same performance in a variety of small packages on customer choice: MXOCE, MXOCI, MXOCR, MXOCS models.

### Physical Dimensions



\* 10.6 mm height is available

### Pin Connections



Pin	Signal
1	Electrical tuning
2	Reference voltage
3	+V Supply
4	RF Out
5	GND



Specification

Table with columns: Parameter, Sym., Conditions, Value (Min., Typ., Max.), Unit, Note. Rows include Frequency range, RF output (HCMOS/TTL option, Sine-wave option), Power supply, Frequency control\*, Frequency stability, SSB Phase noise, Allan variance, Aging, and Environmental/mechanical conditions.

\* No frequency control option – on customer requirement

Ordering code

MXOCE - C 18 B 5 T - 10 MHz

Table 1: Temperature range. Columns: Code, Specification. Rows: A (0°C..50°C), B (-10°C..60°C), C (0°C..70°C), D (-20°C..70°C), E (-30°C..70°C), F (-40°C..85°C), G (-55°C..85°C), H (-40°C..125°C).

Table 2: Stability over temperature. Columns: Code, Specification, Temperature range code available (for 10 MHz, for 100 MHz). Rows: XZ, 50, 19, 29, 39, 59, 18, 28, 58, 17.

Table 3: Aging per day/year, ppb/ppm. Columns: Code, Specification. Rows: B, Z, C, D, E, F, G, H.

Deviation of the parameters is possible on customers' requirements

Table 4: Supply voltage. Columns: Code, Specification. Rows: 3 (3.3V±5%), 5 (5V±5%), 2 (12V±10%).

Table 5: Output. Columns: Code, Specification. Rows: T (HSMOS/TTL), S (Sine-wave).