



MX45/46

In Production

The MX45/46 is a low jitter Crystal Oscillator (XO) with any-rate output and excellent frequency stability. It utilizes Microchip's high performance and low power fractional PLL to generate any frequency between 2.5MHz to 450MHz from a fixed fundamental mode crystal. It supports LVCMOS, LVPECL, LVDS and HCSL output formats.

Features

- o Any frequency output from 2.5 MHz to 450 MHz
- o Low phase noise: 700 fs typical / 1ps max (12 k - 20 MHz)
- o Excellent frequency stability: ± 20 ppm over voltage and temperature
- o Supports CMOS, LVPECL, LVDS and HCSL outputs
- o 4 drive strengths
- o 50% lower power consumption than competition: 30 mA - 50 mA (typ)
- o Supports two pre-programmed output frequencies selected by Frequency Select (FS) input
- o 2.25V to 3.63V supply voltage
- o Industry-standard and space-saving 5.0 x 3.2 mm 6-pin package
- o -40 to +85°C operating temperature range
- o Pb-free and RoHS compliant
- o MSL1 package
- o Short production lead time

Parameter Name	Value
Output Frequency Min (MHz)	2.5
Output Frequency Max (MHz)	450
# of Outputs	1
Phase Jitter	0.65
Output Logic	LVCMOS, LVPECL, LVDS, HCSL
Icc (mA)	30-50