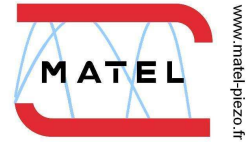


SMD Clock Oscillator CXO 2.0x1.6x0.8

HXO-MC & HXO-MD & HXO-ME



FEATURES
1 to 60 MHz
Ultra miniature ceramic package
HCMOS/TTL compatible
Tri-State Enable/Disable
APPLICATIONS
Clocking
Home security devices
Power saving application

Electrical Parameters

Parameters	Conditions	HXO-MC	HXO-MD	HXO-ME
Frequency Range		1 to 60 MHz		
Frequency Stability*	All Conditions*	± 25 ppm, ± 50 ppm, ± 100 ppm		
Operating Temperature Range		-10 ~ 70°C, -20 ~ 70°C, -40 ~ 85°C		
Storage Temperature Range		-55°C ~ 125°C		
Power Supply Voltage		+3.3V ± 10%	+2.8V ± 10%	+1.8V ± 10%
Supply Current	1 to 9.999 MHz	8 mA Max	7 mA Max	6 mA Max
	10 to 34.999 MHz	10 mA Max	8 mA Max	7 mA Max
	35 to 49.999 MHz	25 mA Max	20 mA Max	15 mA Max
	50 to 54 MHz	35 mA Max	30 mA Max	25 mA Max
Output Symmetry	At ½ VDD	40/60% (45/55% option)		
Rise Time	10% VDD ~ 90% VDD	5 nS Max	6 nS Max	7 nS Max
Fall Time	90% VDD ~ 10% VDD	5 nS Max	6 nS Max	7 nS Max
Output Voltage		90% VDD Min 10% VDD Max		
Output Load HCMOS Load		15 pF Max		
Start-up Time		10 mS Max		
Ageing (First Year)	25°C ± 3°C	± 2 ppm Max		

Ordering Code Stability

Stability*	Code	Temperature Range	Code
± 25 ppm	A	- 10 + 70°C	M
± 50 ppm	B	- 20 + 70°C	E
± 100 ppm	C	- 40 + 85°C	W

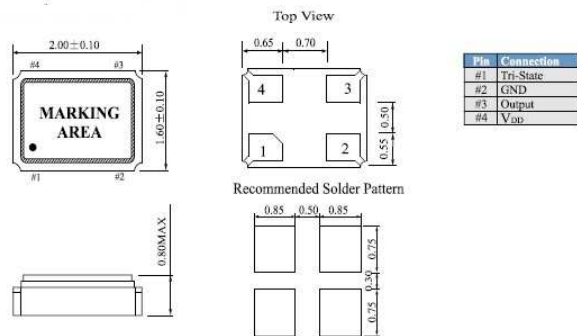
*Includes: 25°C calibration, operating temperature range, input voltage and load changes, ageing, shocks and vibrations (first year)

Example: HXO-MCAE 30MHz

Options

Option	Code
Symmetry 45/55%	T

Mechanical Dimensions (mm)



SMD CXO

TYPE	HXO-MC & HXO-MD & HXO-ME	REVISION	02	CHECKED	PB	DATE	16/02/2017
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All specifications are subject to change without notice