

SMD Clock Oscillator CXO 2.5x2

HXO-NC & HXO-ND & HXO-NE & HXO-NG



www.matel-piezo.fr



FEATURES
1 to 62.5 MHz
Ultra miniature ceramic package
HCMOS/TTL compatible
Tri-State Enable/Disable
APPLICATIONS
Home security devices
Power saving application

Electrical Parameters

Parameters	Conditions	HXO-NC	HXO-ND	HXO-NE	HXO-NG
Frequency Range		1 to 62.5 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%	+1.5V ± 10%
Supply Current	1 to 9.999 MHz	8 mA Max	7 mA Max	6 mA Max	5 mA Max
	10 to 34.999 MHz	10 mA Max	8 mA Max	7 mA Max	6 mA Max
	35 to 49.999 MHz	25 mA Max	20 mA Max	15 mA Max	15 mA Max
	50 to 54 MHz	35 mA Max	30 mA Max	25 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			

Frequency 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

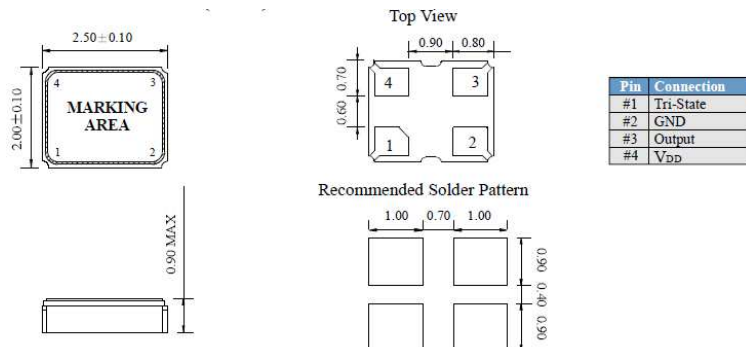
*Includes: 25°C calibration, operating temperature range, input voltage and load changes, ageing, shocks and vibrations (first year)

Example: HXO-NGBWT 25MHz

Options

Option	Code
Symmetry 45/55%	T

Mechanical Dimensions (mm)



SMD CXO

TYPE	HXO-NC&HXO-ND&HXO-NE &HXO-NG	REVISION	04	CHECKED	PB	DATE	16/02/2017
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All specifications are subject to change without notice