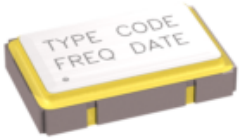
SMD Oscillator CXO 5X3.2
HXO-59 & HXO-57

www.matel-piezo.fr



lead-free

FEATURES
1 to 133MHz HCMOS/TTL compatible Tri-State Enable/Disable
APPLICATIONS
Clocking Datacoms PCMCIA

Electrical Parameters

Parameters	Conditions	HXO-59	HXO-57
Frequency Range		1 to 133 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 (VDD)		+2.8V ± 10%	+1.8V ± 10%
Supply Current	1 to 9.999 MHz	7 mA Max	6 mA Max
	10 to 34.999 MHz	8 mA Max	7 mA Max
	35 to 49.999 MHz	20 mA Max	15 mA Max
	50 to 133 MHz	30 mA Max	25 mA Max
Output Symmetry	At ½ VDD	40/60% (45/55% option)	
Rise Time	10% VDD ~ 90% VDD	6 nS Max	7 nS Max
Fall Time	90% VDD ~ 10% VDD	6 nS Max	7 nS Max
Output Voltage		90% VDD Min	
		10% VDD Max	
HCMOS Load		15 pF Max	
Start-up Time		10 mS Max	
Ageing (First Year)	25°C ± 3°C	± 2 ppm Max	

Ordering Code Stability

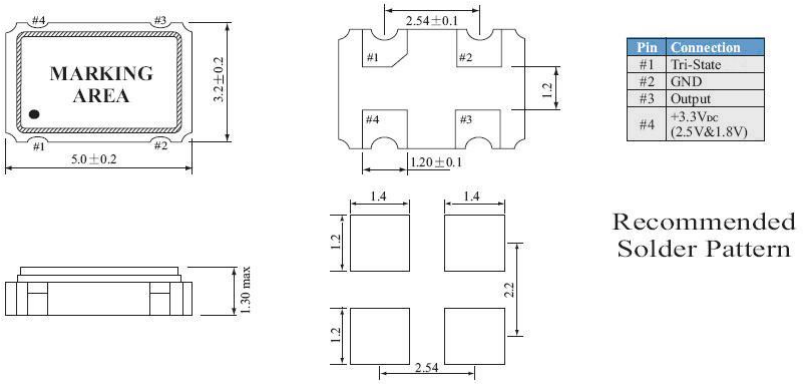
Stability*	Code		Temperature Range	Code
± 25 ppm	A		- 10 + 70°C	M
± 50 ppm	B		- 20 + 70°C	E
± 100 ppm	C		- 40 + 85°C	W

**Includes: 25°C calibration, operating temperature range, input voltage and load change, ageing, shock and vibration*

Options

Option	Code
Symmetry 45/55%	T

Mechanical Dimensions (mm)



SMD CXO

Note : A 0.01uF bypass capacitor should be place between Vdd (Pin 4) and GDN (pin 2) to minimize power supply line noise

TYPE	HXO-59 & HXO-57	REVISION	03	CHECKED	PB	DATE	05/10/2011