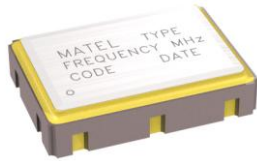


SMD Oscillator CXO 5.0 x 3.2 LVDS XB-23 & XB-43



FEATURES
10 to 220 MHz LVDS Phase jitter 200 fs typical Superior phase noise
APPLICATIONS
Datcomms

Electrical Parameters

Parameters	Conditions	XB-23	XB-43
Frequency Range		10 to 220 MHz	13.5 to 220 MHz
Power Supply Voltage		3.3 V \pm 5%	2.5 V \pm 5%
Supply Current		27 mA max	
Output load LVDS		100 Ω between outputs	
Output Symmetry	At $\frac{1}{2}$ VOD	45/55%	
Rise Time /Fall times (20 to 80%)		0.4 ns Max	
Output Voltage	VOH	1.4 V typ	
	VOL	1.1V typ	
Differential Output	VOD	350 mV typ	
Offset Voltage	VOS	1.25 V typ	
Jitter RMS (12 KHz to 20 MHz)		\leq 500 fs	
Start-up Time		\leq 10 ms	
Storage Temperature Range		-55°C ~ +150°C	
Phase Noise (typical) at 156.25MHz		-50 dBc / Hz @ 10Hz	
		-80 dBc / Hz @ 100Hz	
		-115 dBc / Hz @ 1KHz	
		-135dBc / Hz @ 10KHz	
		-142 dBc / Hz @ 100kHz	
		-147 dBc / Hz @ 1MHz	
		-152 dBc / Hz @ 10MHz	

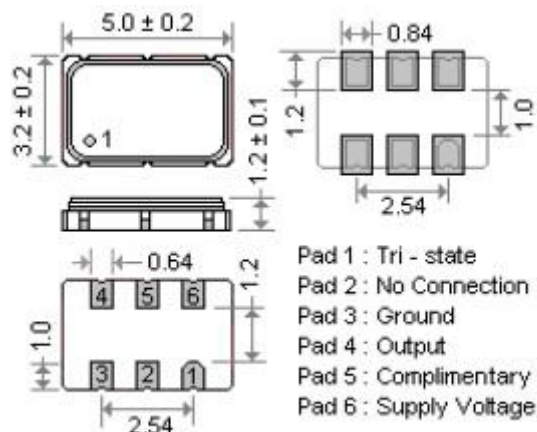
Ordering Code Stability

Temperature Range	Code	Stability	Code	Internal Code	Internal Code	Option	Code
- 10 + 60°C	C	\pm 25 ppm	D	0	0	Tri-State on pad 2	T
- 20 + 70°C	E	\pm 50 ppm	C				
- 40 + 85°C	H	\pm 100 ppm	A				

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

example: XB-23EC00 156.25MHz

Mechanical Dimensions (mm)



SMD CXO

TYPE	XB-23 & XB-43	REVISION	01	CHECKED	PB	DATE	16/12/2015
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All specifications are subject to change without notice