

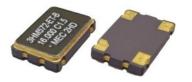
EURO QUARTZ B Series Spread Spectrum Clock Oscillators

'EQHM_B' Spread Spectrum Clock Oscillators 3.0MHz to 200MHz

FEATURES

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- Reduces electromagnetic interferance (EMI) by 12dB to 18dB
- **Drop-in replacement for conventional oscillators**
- No need to re-spin the board or solder pad layout
- Operates with +2.5V or 3.3V supply voltage
- 5.0x3.2mm and 7.0x5.0mm sizes available







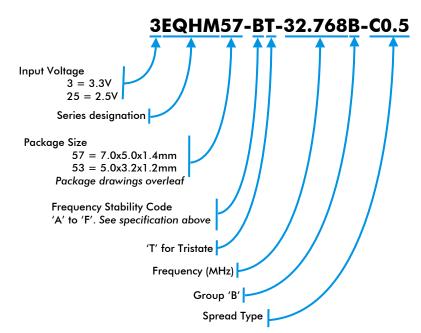
General Specifications at Ta=+25°C, CL=15pf

Group	B Group		
Package	EQHM53 (5.0 x 3.2 x 1.2mm)	EQHM57 (7.0 x 5.0 x 1.4mm)	
Output Waveform	CMOS (square wave)		
Supply Voltage (V _{DD})	+2.5V ±10%	+3.3V ±10%	
Frequency Range	3.0MHz ~ 166MHz	3.0MHz ~ 200MHz	
Output Logic "High", "1"	2.25V (min.)	2.97V (min.)	
Output Logic "Low", "0"	0.25V (max.)	0.33V (max.)	

Spread Type	Spread Percentage EMI Reduction Rate	Spread Percentage EMI Reduction Rate				
Center Spread ("C")	±0.125% (C0.125) to ±2.0% (C2.0) in ±0.125% s	±0.125% (C0.125) to ±2.0% (C2.0) in ±0.125% steps				
Down Spread ("D")	-0.25% (D0.25) to -4.0% (D4.0) in 0.25% steps	-0.25% (D0.25) to -4.0% (D4.0) in 0.25% steps				
Frequency Stablity Code	Frequency Stability over Operating Temperature Range	±25ppm	±50ppm	±100ppm		
	Commercial (-10°C to +70°C)	Α	В	С		
	Industrial (-40°C to 85°C)	D	E	F		
Modulation Carrier Freq. (Dither rate)	30kHz (min.) ; 40.0kHz (max.) Frequency dependant. Enquire for details					
Current Consumption	3MHz ~ 100MHz: 20mA (max.); 101MHz ~ 200M	3MHz ~ 100MHz: 20mA (max.); 101MHz ~ 200MHz: 30mA (max.)				
Rise Time/Fall Time	5.0 nsec. (max.), 10% 90% waveform					
Output Load	15pF					
Start-up Time	3.0 msec. (typ.); 5 msec. (Max.)					
Duty Cycle	50% ±10%					
Aging at Ta = +25C	±5ppm per year (max.)					
Storage Temperature	-55°C to +125°C	-55°C to +125°C				
Output Enable/Disable Function	Enable 70% (min.) of Vdd to Enable Output					
	Disable	Disable 30% (max.) Of Vdd tp Disable Output				
	Output Enable/Disable time: 100 nsec. (Max.)					

PART NUMBER CONFIGURATION

Part Number Example: 3EQHM57-BT-32.768B-C0.5



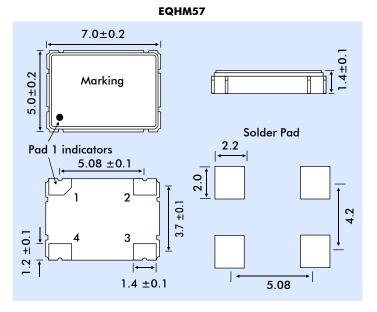


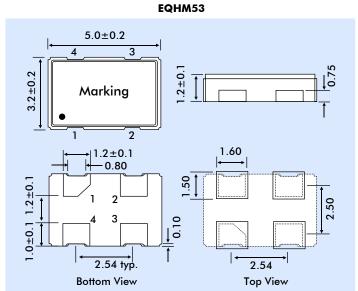
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Package Outline & Dimensions





Pad Connections

Pad 1: OE

Pad 2: Ground

Pad 3: Output

Pad 4: Supply Voltage