

EQHJN Series

0.625MHz to 60.000MHz

- Wide range of packages available, from 7.0x5.0mm to 2.5x2.0mm
- 1.8V, 2.5V, 3.3V supply voltage options
- Ultra low phase jitter

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GENERAL SPECIFICATION

Output Waveform		Square Wave									
Supply Voltage		+1.8V±10%		+2.5V±5%			3.3V±10%				
Frequency Range		0.625MHz to 60.000MHz									
Current Consumption		2mA (typ.); 5mA (max.)		3mA (typ.); 7mA (max.)			5mA (typ.); 10mA (max.)				
Current With Output Disable		20uA (max.)		20uA (max.)			20uA (max.)				
Output Logic High '1'		1.62V (min.)		2.2V (min.)			2.97V (min.)				
Output Logic Low '0'		0.18V (max.)		0.25V (max.)			0.33V (max.)				
Rise/Fall Time		2.0 nsec. (typ.) 5.0 nsec. (max.)		1.0 nsec. (typ.) 4.0 nsec. (max.)			1.0 nsec. (typ.) 3.0 nsec. (max.)				
Output Load		15pF									
Start-up Time		0.4 msec. (typ.); 1.0msec. (max.)									
Duty Cycle		50±5%									
Enable/ Disable on Pin 1		70% of Vdd (min.) to enable output									
		30% of Vdd (max.) to disable output									
Enable/Disable Time		Enable: 1.0 msec. (max.), Disable: 200 nsec (max.)									
Storage Temperature		-55°C to +150°C									
Aging		±3ppm (max.) first year									
RMS Jitter [12kHz ~ 20MHz]		57 fsec (typ.) @ 3.3V, 49.152MHz									
SSB Phase Noise	Offset	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	5MHz	20MHz		
24.000MHz	dBc/Hz (typ.)	-78	-111	-142	-154	-167	-171	-171	---		
49.152MHz	dBc/Hz (typ.)	-83	-113	-137	-151	-166	-171	-171	-171		
Frequency Stability Codes		Frequency Stability Over Operating Temperature Range				±25ppm		±50ppm		±100ppm	
		Commercial (-20°C to +70°C)				A		B		C	
		Industrial (-40°C to +85°C)				D		E		F	

ORDERING/PART NUMBER GENERATION

Example: 3EQHJN57-DT-25.000MHz

Input Voltage

18 = 1.8V
25 = 2.5V
3 = 3.3V

Series Designation

Package Size

22 = 2.5x2.0mm
32 = 3.2x2.5mm
53 = 5.0x3.2mm
57 = 7.0x5.0mm

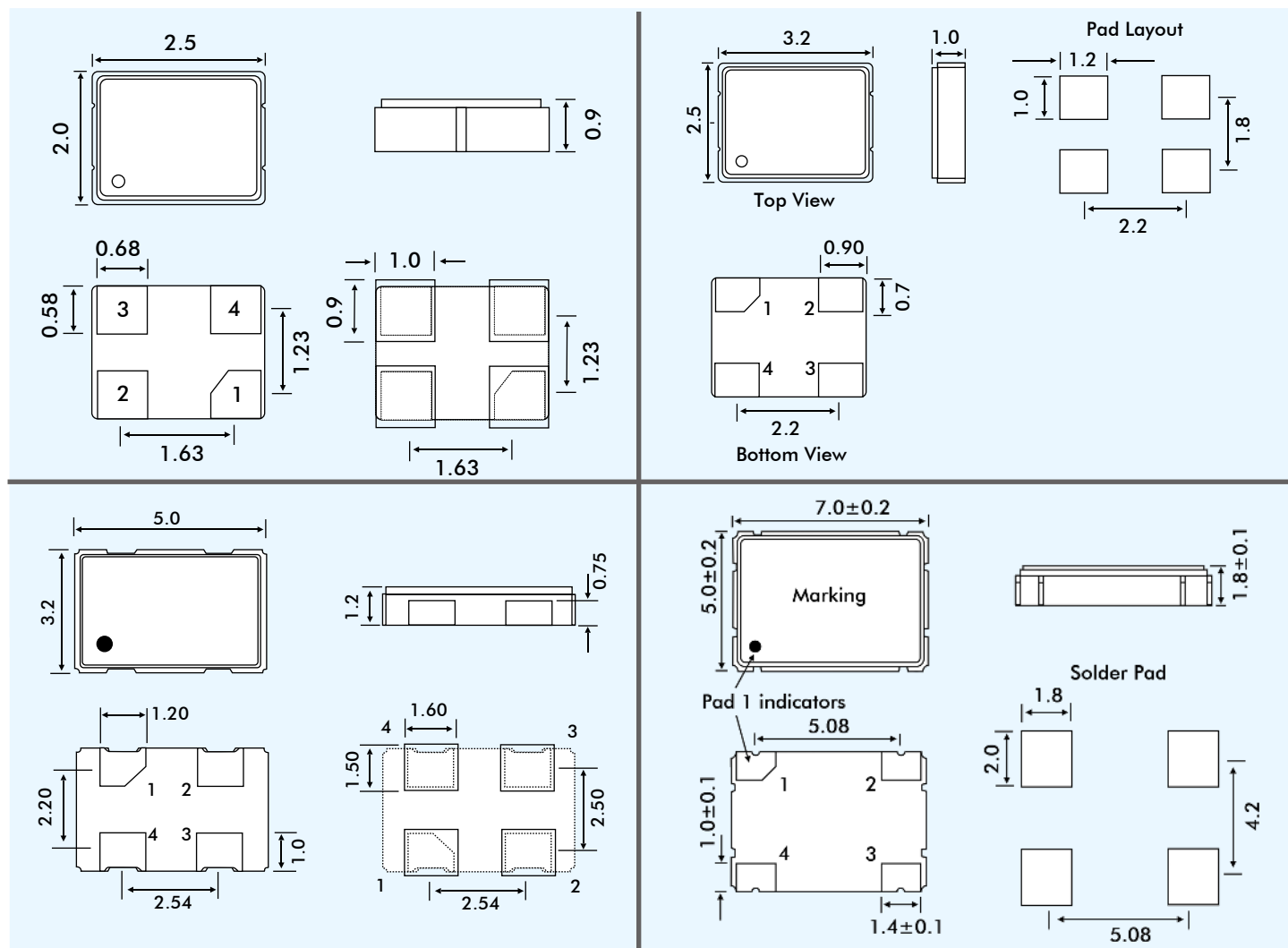
Frequency Stability Code

See Frequency Stability Table

Tri-State on Pad 1

Output Frequency

PACKAGE DRAWINGS OVERLEAF

**Pad Connections**

- | | |
|-------------|------------------|
| 1 Tri-State | 3 Output |
| 2 Ground | 4 Supply Voltage |