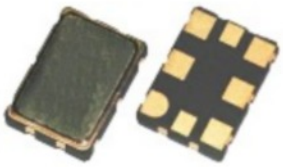
EUROQUARTZ

JF Series Differential Oscillators

EHPJF LVDS Oscillator 150MHz to 2,100MHz

FEATURES

- **Ultra Low RMS Jitter**
- **3.2 x 2.5 mm, 5.0 x 3.2mm, and 7.0 x 5.0mm Package Sizes Available**



General Specifications at Ta=+25˚C

Output Logic	PECL		
Model	EHPJF		
Package Size (mm)	EHPJF328 (3.2 x 2.5 x 1.0)	EHPJF538 (5.0 x 3.2 x 1.4)	EHPJF578 (7.0 x 5.0 x 1.8)
Supply Voltage (V_{DD})	+2.5V ±10%		+3.3V ±10%
Frequency Range	150MHz (min.) 2,100MHz (max.)		
Output Logic "High", "1"	Vdd - 1.165V(min.) Vdd - 0.8V (max.)		
Output Logic "Low", "0"	Vdd - 2.0V (min.) Vdd - 1.55V (max.)		
Output Load	50Ω into Vdd -2V or Thevenin Equivalent		
Output Voltage Swing	595mV (min.) 930mV (max.)		
Current Consmumption (Vdd = +3.3V)	100 mA (typ.) 120 mA (max.)		
Disable Current	99 mA (typ.)		
Rise / Fall TIme	4.0 nsec. (max.) (20% to 80% Waveform)		

Frequency Stability Code	Frequency Stability Over Operating Temperature Range	±25 ppm	±50 ppm	±100 ppm
	Commercial (-10˚C to +70˚C)	A	B	C
	Industrial (-40˚C to +85˚C)	D	E	F

Duty Cycle	50±5%
Start-up Time	5 nsec. (Typ.) ; 10 nsec. (Max.)
RMS Jitter (typ.) (12KHz to 20MHz)	156.250MHz: 150 fsec ; 491.520 MHz: 155 fsec ; 644.530 MHz: 151 fsec ; 2,000 MHz: 163 fsec
Storage Temperature	-55C to 150˚C
Aging at Ta = +25C	±3 ppm (max.) First year ; ±2 ppm (max.) per year thereafter
Enable / DIsable Function on Pad 1	80% of Vdd (min.) to enable output
	20% of Vdd (max.) to disable output
Enable / DIsable Time	2.5 msec (max.) / 10usec. (max)

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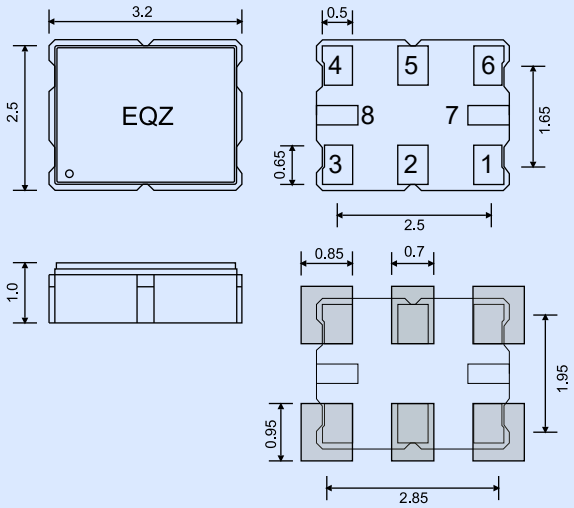
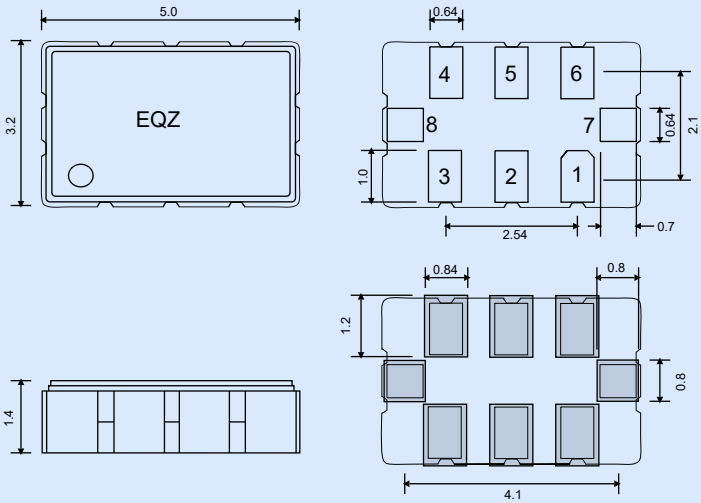
Outline DImensions (in mm) and suggested pad layout

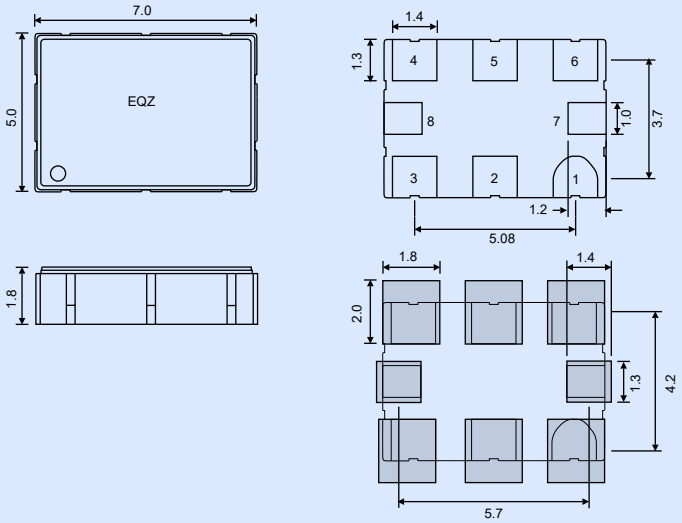
EHPJF328



EHPJF538



EHPJF578



Pad Connections

Pad Connections

Pad 1: OE	Pad 5: Complimentary Output
Pad 2: No Connection	Pad 6: Supply Voltage
Pad 3: Ground	Pad 7: No Connection
Pad 4: Output	Pad 8: No Connection

Part Number Format

EHDJF part numbers are derived as follows:
Example: 125.000/25EHPJF578ET125.00

125.000 25 EHPJF 578 E T 125.00

Frequency

Supply Voltage:
18 = 1.8V
25 = 2.5V
33 = 3.3V

Series Description

Package Size
328 = 3.2x2.5mm
538 = 5.0x3.2mm
578 = 7.0x5.0mm

Frequency Stablity Code
A~F (see stability table)

Tristate

Center Frequency

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