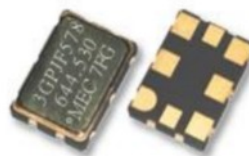


**FEATURES**

- Ultra Low RMS Jitter
- Available in 3.2 x 2.5mm, 5.0 x 3.2mm and 7.0 x 5.0mm packages
- Applications Include: High Resolution Audio & Video; High Speed Data Converters; Storage Area Networks


**General Specifications at Ta = +25°C**

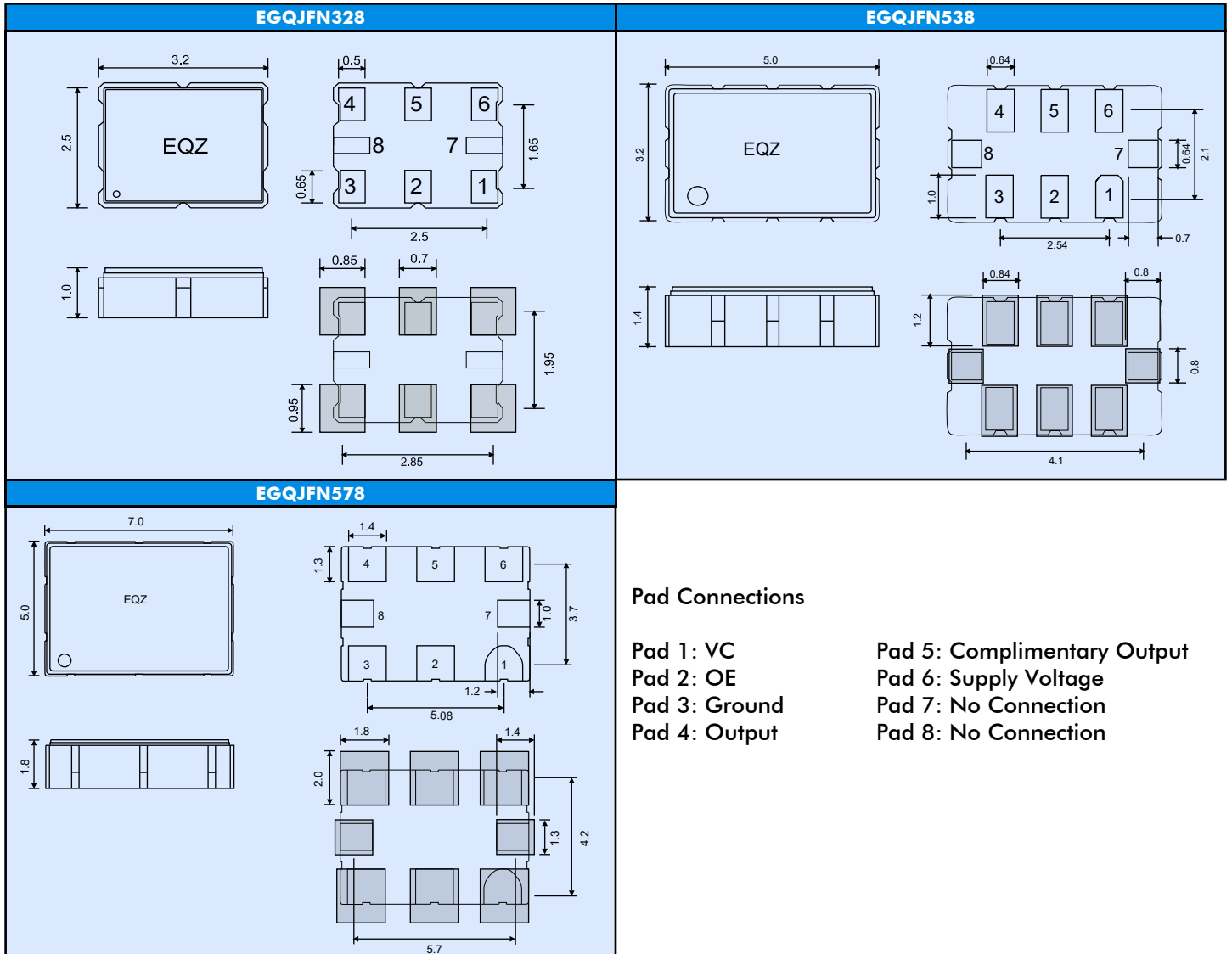
Output Logic	CML		
Model	EGQJFN		
Package Size (mm)	EGQJFN328 (3.2 x 2.5 x 1.4)	EGQJFN538 (5.0 x 3.2 x 1.4)	EGQJFN578 (7.0 x 5.0 x 1.8)
Supply Voltage (V <sub>DD</sub> )	1.8V ± 5%	+2.5V ± 10%	+3.3V ± 10%
Frequency Range	15MHz (min.) 2,100MHz (max.)		
Output Logic "High", "1"	V <sub>DD</sub> - 0.085V (min.) V <sub>DD</sub> = (max.)		
Output Logic "Low", "0"	V <sub>DD</sub> - 0.6V (min.) V <sub>DD</sub> - 0.32V (max.)		
Output Voltage Swing	200mV (min.) 600mV (max.)		
Output Load	50Ω to V <sub>DD</sub>		
Current Consumption (V <sub>DD</sub> = +3.3V)	70 mA (typ.) 85 mA (max.)		
Disable Current	69 mA (typ.)		
Rise / Fall Time	0.4 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: 159 fsec ; 491.520 MHz: 155 fsec ; 644.530 MHz: 151 fsec ; 2,000 MHz: 163 fsec
Storage Temperature	-55°C to 150°C
Aging at Ta = +25C	±3 ppm (max.) First year ; ±2 ppm (max.) per year thereafter
Enable / Disable Time	2.5 msec (max.) / 10usec. (max)

Control Voltage Center	+0.9V (V <sub>DD</sub> = +1.8V)	+1.25V (V <sub>DD</sub> = +2.5V)	+1.65V (V <sub>DD</sub> = +3.3V)
Control Voltage Range	0V ~ +1.8V	+0.25V ~ +2.25V	+0.3V ~ +3.0V
Frequency Pulling Range	±100 ppm (min.) ±200 ppm (available)	±100 ppm (min.) ±200 ppm (available)	±100 ppm (min.) ±200 ppm (available)
Linearity	±1% (typ.); 10% (max.)		
Transfer Function	Positive Transfer		
Input Impedance	5MΩ (min.)		
Bandwidth	10KHz (typ.) Measured at -3dB		

Outline Dimensions (in mm) and suggested pad layout



### Pad Connections

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

### Part Number Format

EGQJFN part numbers are derived as follows:  
 Example: 125.000/25EGQJFN578E150M

