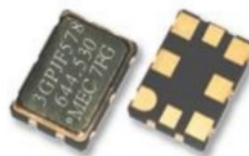


FEATURES

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



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General Specifications at Ta = +25°C

Output Logic	HCSL		
Model	EGCJF		
Package Size (mm)	EGQJF328 (5.0 x 3.2 x 1.4)		EGQJF578 (7.0 x 5.0 x 1.8)
Supply Voltage (V _{DD})	+1.8V ±5%	+2.5V ±10%	+3.3V ±10%
Frequency Range	15MHz (min.) 700MHz (max.)		
Output Logic "High", "1"	V _{dd} : 0.66V(min.) V _{dd} : 1.15 (max.)		
Output Logic "Low", "0"	V _{dd} : -0.15V (min.) V _{dd} : 0.15V (max.)		
Output Load	50Ω to GND		
Output Voltage Swing	450mV (min.) 700mV (max.)		
Current Consumption (V _{dd} = +3.3V)	80 mA (typ.) 100 mA (max.)		
Disable Current	79 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: 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 Time	2.5 msec (max.) / 10usec. (max)

Control Voltage Center	+0.9V (V _{dd} = +1.8V)	+1.25V (V _{dd} = +2.5V)	+1.65V (V _{dd} = +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		

±

EURO QUARTZ**GJF Series Differential VCXO****EGCJF HCSL VCXO****15MHz to 2,100MHz**

Outline Dimensions (in mm) and suggested pad layout

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EGCJF328		EGCJF538	

Pad Connections

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

Part Number Format

EHQJF part numbers are derived as follows:

Example: 125.000/25EGCJF578EM

	125.000	25	EGCJF	578	E	M
Frequency	125.000					
Supply Voltage:		25				
18 = 1.8V						
25 = 2.5V						
33 = 3.3V						
Series Description			EGCJF			
Package Size				578		
328 = 3.2x2.5mm						
538 = 5.0x3.2mm						
578 = 7.0x5.0mm						
Frequency Stability Code					E	
A~F (see stability table)						
Frequency Pulling Range						M
'150' = ±150 ppm						
'M' = Maximum						
'N' = Minimum						
'T' = Typical						

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