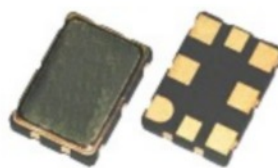


FEATURES

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



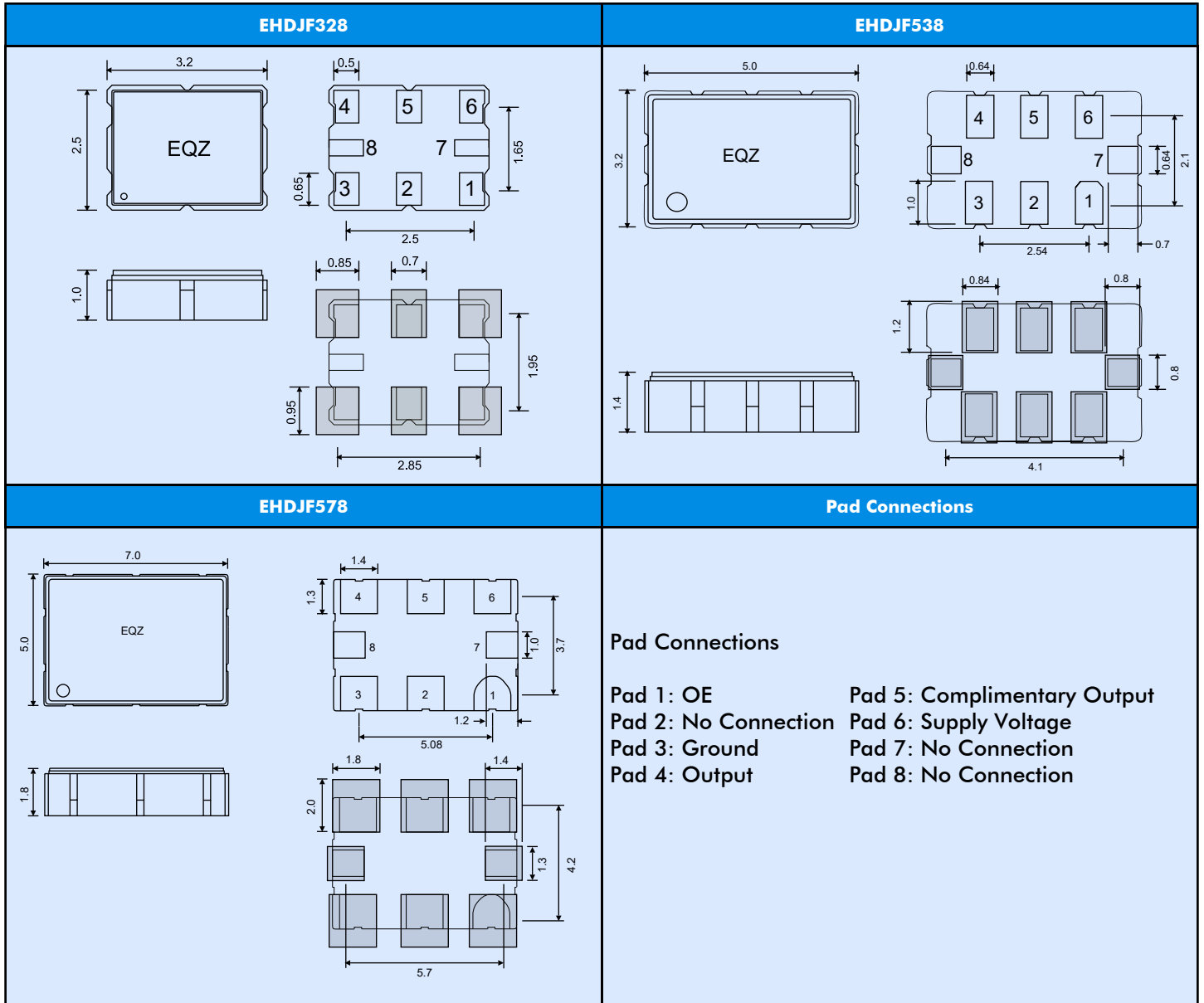
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QUIKXO™
 MERCURY
QUICK-TURN Oscillators
General Specifications at Ta = +25°C

| Output Logic | LVDS | | |
|---|---|----------------------------|----------------------------|
| Model | EHDJF | | |
| Package Size (mm) | EHDJF328 (3.2 x 2.5 x 1.0) | EHDJF538 (5.0 x 3.2 x 1.4) | EHDJF578 (7.0 x 5.0 x 1.8) |
| Supply Voltage (V _{DD}) | +1.8V ±10% | +2.5V ±10% | +3.3V ±10% |
| Frequency Range | 150MHz (min.) | | |
| | 2,100MHz (max.) | | |
| Output Logic "High", "1" | V _{dd} - 1.4V (min.) | | |
| | V _{dd} - 1.6V (max.) | | |
| Output Logic "Low", "0" | V _{dd} - 1.1V (min.) | | |
| | V _{dd} - 0.9V (max.) | | |
| Output Load | 100Ω | | |
| Output Voltage Swing | 250mV (min.) | | |
| | 450mV (max.) | | |
| Current Consumption (V _{dd} = +3.3V) | 75 mA (typ.) | | |
| | 90 mA (max.) | | |
| Disable Current | 74 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 V _{dd} (min.) to enable output 20% of V _{dd} (max.) to disable output |
| Enable / Disable Time | 2.5 msec (max.) / 10usec. (max) |



Part Number Format

EHDJF part numbers are derived as follows:
 Example: 125.000/25EHDJF578ET125.00

