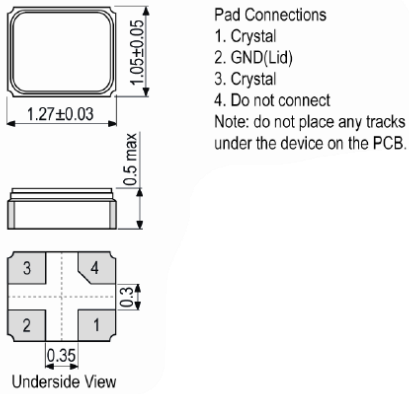
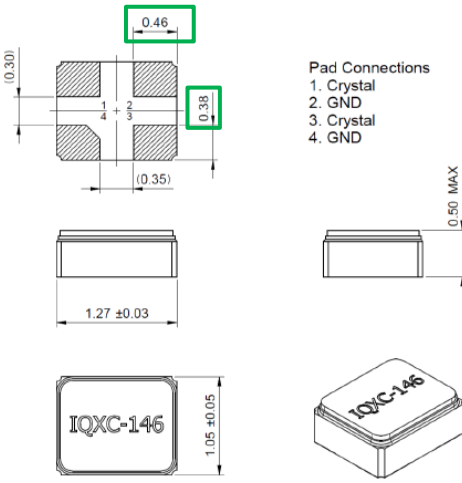


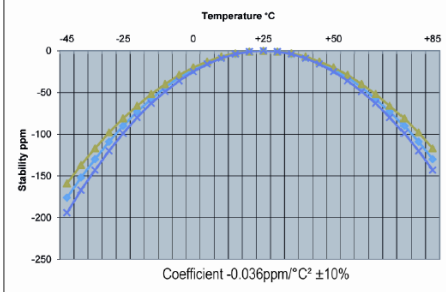
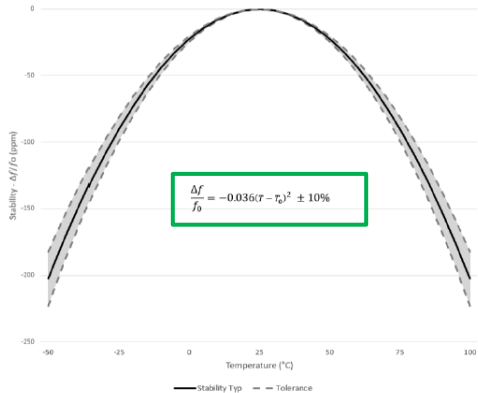


Product/Process Change Notice (PCN)							
<input type="checkbox"/> Major Change <input checked="" type="checkbox"/> Minor Change							
PCN Number: PCN_FrqXTAL_20250211 Affected Series: WE-XTAL Affected Part Number: 830108091501, 830107834801, 830108211801 PCN Date: 2024-11-11 (YYYY-MM-DD) Effective Date: 2025-02-11 (YYYY-MM-DD)	Change Category: <input type="checkbox"/> Equipment/Location <input checked="" type="checkbox"/> General Data <input type="checkbox"/> Material <input type="checkbox"/> Process <input type="checkbox"/> Product Design <input type="checkbox"/> Shipping/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> Software						
Contact: Product Management Phone: +49 (0) 7942 - 945 5001 Fax: +49 (0) 7942 - 945 5179 E-Mail: pcn.eisos@we-online.com	Datasheet Change: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Attachment: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
DESCRIPTION OF CHANGE: <p>Because of a database mismatch, Würth Elektronik eiSos will correct the RoHs status (1), packaging details (2), product dimensions (3), typical frequency stability graph (4), environmental parameters (5) and IQD Part No. format (6) in the datasheet.</p> <p>This is a datasheet correction only. There will be no change in form, fit, function, quality or reliability of the product.</p>							
DETAILS OF CHANGE: 1. Correction of the RoHs Status:							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="text-align: center; color: red;">Before</th> <th style="text-align: center; color: green;">After</th> </tr> </thead> <tbody> <tr> <td>RoHS Status</td> <td>Compliant (2011/65/EU)</td> <td>Compliant (2015/863/EU)</td> </tr> </tbody> </table>			Before	After	RoHS Status	Compliant (2011/65/EU)	Compliant (2015/863/EU)
	Before	After					
RoHS Status	Compliant (2011/65/EU)	Compliant (2015/863/EU)					
2. Correction of the Packaging Details:							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="text-align: center; color: red;">Before</th> <th style="text-align: center; color: green;">After</th> </tr> </thead> <tbody> <tr> <td>Packaging Details</td> <td> Pack Style: Reel Tape & reel in accordance with EIA-481-D Pack Size: 5,000 </td> <td> Tape & reel in accordance with EIA-481 Quantities below the standard reel size to be supplied on cut tape. Standard Quantity: 5,000 Pieces </td> </tr> </tbody> </table>			Before	After	Packaging Details	Pack Style: Reel Tape & reel in accordance with EIA-481-D Pack Size: 5,000	Tape & reel in accordance with EIA-481 Quantities below the standard reel size to be supplied on cut tape. Standard Quantity: 5,000 Pieces
	Before	After					
Packaging Details	Pack Style: Reel Tape & reel in accordance with EIA-481-D Pack Size: 5,000	Tape & reel in accordance with EIA-481 Quantities below the standard reel size to be supplied on cut tape. Standard Quantity: 5,000 Pieces					

3. Correction of the Product Dimensions:

	Before	After
Product Dimensions	 <p>Pad Connections 1. Crystal 2. GND(Lid) 3. Crystal 4. Do not connect Note: do not place any tracks under the device on the PCB.</p>	 <p>Pad Connections 1. Crystal 2. GND 3. Crystal 4. GND</p>

4. Correction of the typical frequency stability graph:

	Before	After
Typical Frequency Stability Characteristics	 <p>Coefficient -0.036ppm/°C² ± 10%</p>	 <p>$\frac{\Delta f}{f_0} = -0.036(\tau - \tau_0)^2 \pm 10\%$</p>



5. Standardization of Environmental Parameters:

Due to internal standardization, it has been decided to include only the most important environmental parameters in the datasheets. All other environmental parameters can be found in the Qualification Overview available on request.

	Before	After
Environmental Parameters	Storage Temperature Range: -55 to 125 °C Shock: 100 g dummy dropped 10 times in 3 axis from a height of 1500 mm onto concrete. Vibration: 1.5 mm amplitude, 10~60 Hz, 15 mins cycle time in X, Y and Z axis, 2 hrs each axis. High Temperature Storage: 125 °C for 1000 hrs Low Temperature Storage: -55 °C for 1000 hrs Humidity: 85 °C ±2 °C at 85% RH for 1000 hrs Thermal Shock Resistance: -55 °C to 125 °C for 30 mins, 100 cycles.	Storage Temperature Range: -55 to 125 °C Shock: 100 g dummy dropped 10 times in 3 axis from a height of 1500 mm onto concrete. Vibration: 1.5 mm amplitude, 10~60 Hz, 15 mins cycle time in X, Y and Z axis, 2 hrs each axis.

6. Update of IQD Part No.:

Due to internal standardization the last 4 digits identifying the packaging type have been removed from the IQD Part No. format.

	Before	After
IQD Part No.	LFX TALXXXX Reel e.g. LFX TAL078348 Reel	LFX TALXXXXXX e.g. LFX TAL078348

RELIABILITY / QUALIFICATION OF CHANGE:

There will be no change of the product, therefore no additional reliability or qualification testing was performed.