

Part Number: **830016178** | 85SMX

AKA Number: LFXTAL016178



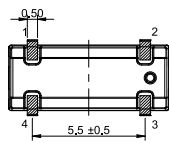
General Information

Industry standard SMD package with 5.5 mm lead spacing.

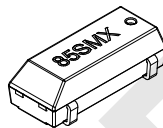
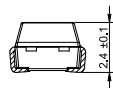
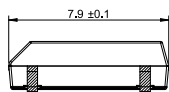
Suitable for real time clock applications.

Plastic encapsulated.

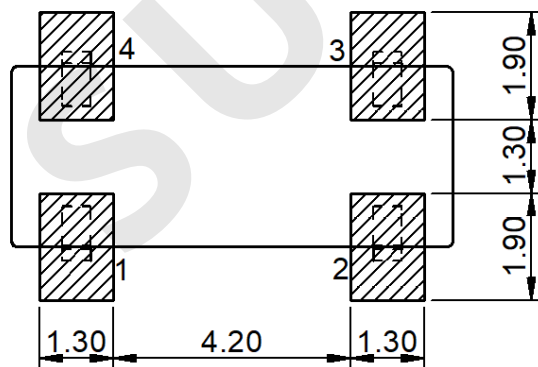
Dimensions [mm]



| Pad No | Pad Connection |
|--------|----------------|
| 1 | Crystal |
| 2 | GND |
| 3 | GND |
| 4 | Crystal |



Recommended Land Pattern [mm]



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Frequency Parameters

| | |
|-----------------------|----------------------------------|
| Frequency | 32.7680 kHz |
| Frequency Tolerance | ± 20 ppm |
| Operating Temperature | -40 °C to 85 °C |
| Overtone Order | Fundamental |
| Ageing | ± 5 ppm max in first year @25 °C |

Material Parameters

| | |
|----------------------------------|----------------|
| Termination Finish | Ag Sn |
| Moisture Sensitivity Level (MSL) | Not Applicable |

Manufacturing Details

- Reflow: 260 °C max over 10 seconds max.
- Not suitable for use with ultrasonic cleaning techniques.

Electrical Parameters

| | |
|-------------------------|--------------------------|
| Load Capacitance C_L | 6 pF |
| Shunt Capacitance C_0 | 1 pF typ. 2.5 pF max. |
| Drive Level | 1 µW max. |
| ESR | 50000 Ω max. |

Environmental Parameters

| | |
|---|------------------|
| Storage Temperature Range: | -55 °C to 125 °C |
| <ul style="list-style-type: none"> Drop: 75 cm drop (3 times) onto hard wooden board Vibration: 1.5 mm amplitude, 10 Hz-60 Hz, 2-3 mins in 3 mutually perpendicular planes, duration 2 hrs each plane | |

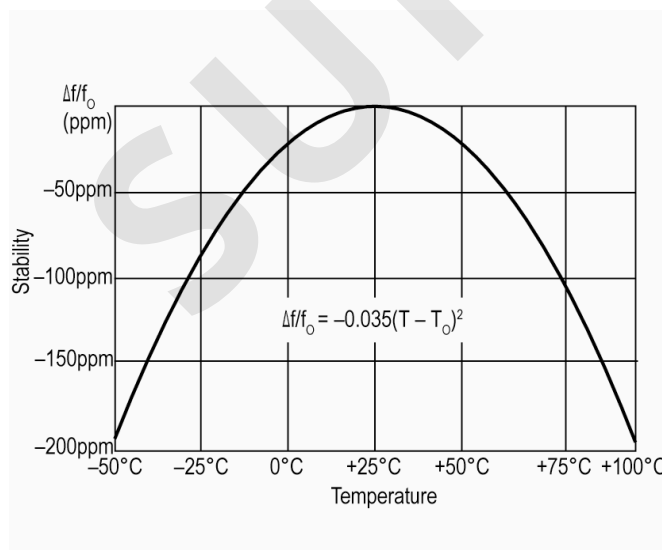
Technical Standards

| | |
|--------------|---------------------------|
| RoHS Status | 2015/863/EU - Compliant |
| REACH Status | (EC)1907/2006 - Compliant |

Packaging Details

| | |
|---|----------------------|
| Packaging SPQ | Tape & Reel 3000 pcs |
| <ul style="list-style-type: none"> Tape & reel in accordance with EIA-481 Quantities below the standard reel size to be supplied on cut tape. | |

Stability vs. Temperature



WATCH CRYSTAL

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Company Address

IQD Frequency Products Ltd.

Station Road

Crewkerne

Somerset

TA18 8AR, United Kingdom

SUPERSEDED