

ISSUE 10; October 2015

**Description**

- Industry standard SMD crystal
- Plastic encapsulated
- Low profile version also available please contact our sales offices for details

**Frequency Parameters**

- Frequency 3.579545MHz to 90.0MHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Frequency Stability  $\pm 10.00\text{ppm}$  to  $\pm 150.00\text{ppm}$
- Ageing  $\pm 5\text{ppm}$  max per year at 25°C

**Electrical Parameters**

- Load Capacitance (CL) 10.0pF to 50.0pF
- Shunt Capacitance (C0) 5pF max
- Drive Level 100µW max

**Operating Temperature Ranges**

- 0 to 50°C
- 10 to 60°C
- 20 to 70°C
- 40 to 85°C

**Environmental Parameters**

- Storage Temperature Range: -40 to 90°C
- Drop: 75cm drop (3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane

**Ordering Information**

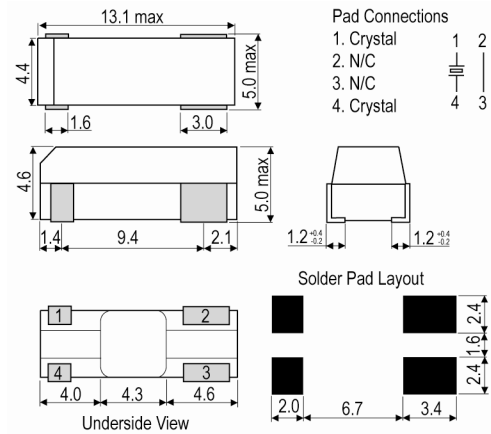
- Frequency\*
- Model\*
- Frequency Tolerance (@ 25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone\*
- Example:  
10.0MHz 86SMX  
50/50/-40 to 85C/10 FUND

**Compliance**

- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



**Outline (mm)**



**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

#### Packaging Details

- Pack Style: Bulk      Loose in bulk pack  
Pack Size: 100
- Pack Style: Reel      Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000
- Pack Style: Cutt      In tape cut from a reel  
Pack Size: 1
- Pack Style: R500      Tape & reel in accordance with EIA-481-D  
Pack Size: 500
- Pack Style: R250  
Pack Size: 250

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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
3.579545MHz	3.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	200
4.0MHz	4.499999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	150
4.5MHz	4.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	120
5.0MHz	5.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	100
6.0MHz	8.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	80
9.0MHz	9.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	60
10.0MHz	12.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	50
13.0MHz	18.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	35
19.0MHz	40.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	Fundamental	25
30.0MHz	34.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	3rd Overtone	80
35.0MHz	39.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	3rd Overtone	70
40.0MHz	44.999999MHz	0 to 50	±10	3rd Overtone	65

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Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
		-10 to 60 -20 to 70 -40 to 85	±20 ±30 ±50		
45.0MHz	49.999999MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	3rd Overtone	60
50.0MHz	90.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±20 ±30 ±50	3rd Overtone	80

\*Stability Maximum values ±150ppm

This document was correct at the time of printing; please contact your local sales office for the latest version.

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[FL2000085](#) [9B-15.360MBBK-B](#) [9C-7.680MBBK-T](#) [ASH7K-32.768KHZ](#) [AT-41.600MAGQ-T](#) [BTD1062E05A-513](#) [LFX TAL066198Cutt](#)  
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