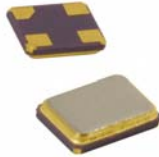


# Product Specification

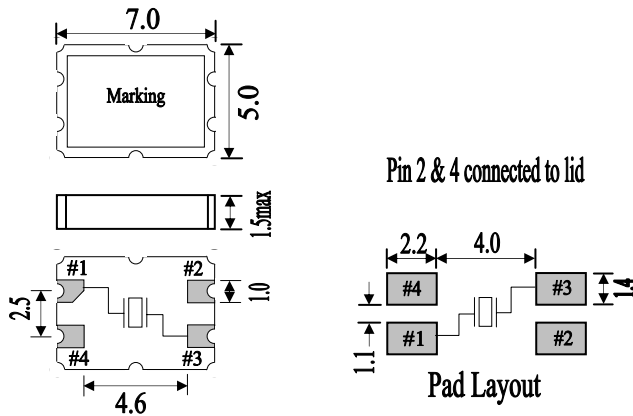


This product is certified to comply with the RoHS Directive 2002/95/EC.

## SM75A 4-pad SMD Crystal



- 7.0x5.0x1.5mm
- Ceramic base, metal lid
- Seam welded
- Wide frequency range
- Tight tolerance



### Specification

<b>Frequency range</b>	6.0 ~ 110MHz
<b>Adjustment@25°C</b>	See Table 2
<b>Temp. Stability</b>	See Table 1
<b>Temp. range</b>	See Table 1
<b>ESR</b>	6 ~ 15.99MHz: 60Ω max. 16 ~ 39.9MHz: 40Ω max. (Fundamental) 30 ~ 49.9MHz: 80Ω max. (3 <sup>rd</sup> overtone) 50 ~ 110MHz: 70Ω max. (3 <sup>rd</sup> overtone)
<b>Load capacitance</b>	See Table 3
<b>Shunt capacitance</b>	5.0pF max
<b>Drive level</b>	10uW typ. 100uW max.
<b>Storage temp.</b>	-40 ~ +85°C
<b>Ageing</b>	5ppm/year max.

'\*' suffix denotes RoHS Compliant

Standard packing: 1Kpcs per 7" taped reel

### Ordering Code Guide

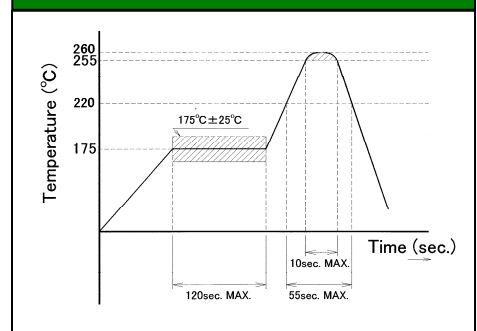
Series Code	Frequency	Specification	Holder Type	RoHS
X	xxMxxx	G C B E	SM75A	*

Magna use a 4 lettering coding system for defining standard specifications as shown below. Where other parameters are specified (such as C1 or pullability) then a customer specific datasheet will be produced. Other temperature ranges, stabilities, adjustments and load capacitances are available. Please contact us for advice.

1 <sup>st</sup> Letter	Temp. range	See Table 1
2 <sup>nd</sup> Letter	Temp. stability	See Table 1
3 <sup>rd</sup> Letter	Adjustment tolerance	See Table 2
4 <sup>th</sup> Letter	Load capacitance	See Table 3

Please note that not all combinations of temperature and stability are possible. Please see Table 1 for guide to availability.

### Reflow Profile



Issue 2 01/07/10

Magna Frequency Components, Magna House, Dales Manor Business Park, Sawston, Cambridge, CB22 3TJ  
 Tel: +44 1223 834800 Fax: +44 1223 834600 Email: sales@magnafrequency.com

# Product Specification



This product is certified to comply with the RoHS Directive 2002/95/EC.



## SM75A 4-pad SMD Crystal

### Crystal Ordering Codes

**Table 1: Temperature range v. Stability**

Temp. Range & Stability		±3ppm	±5ppm	±7.5ppm	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
		<b>K</b>	<b>J</b>	<b>H</b>	<b>G</b>	<b>F</b>	<b>E</b>	<b>B</b>	<b>C</b>
0 ~ +50°C	<b>J</b>	✓	✓	✓	✓	✓	✓	✓	✓
-5 ~ +55°C	<b>H</b>	✓	✓	✓	✓	✓	✓	✓	✓
-10 ~ +60°C	<b>G</b>	-	✓	✓	✓	✓	✓	✓	✓
-20 ~ +70°C	<b>E</b>	-	✓	✓	✓	✓	✓	✓	✓
-30 ~ +80°C	<b>C</b>	-	-	✓	✓	✓	✓	✓	✓
-40 ~ +85°C	<b>M</b>	-	-	-	✓	✓	✓	✓	✓

Other temperature ranges and stabilities are available.

**Table 2: Adjustment tolerance**

±5ppm	±10ppm	±15ppm	±20ppm	±25ppm	±30ppm	±50ppm	±100ppm
<b>J</b>	<b>G</b>	<b>F</b>	<b>E</b>	<b>D</b>	<b>B</b>	<b>C</b>	<b>A</b>

Other adjustment tolerances are available.

**Table 3: Load capacitance**

10pF	12pF	16pF	18pF	20pF	30pF	32pF	Series
<b>A</b>	<b>R</b>	<b>K</b>	<b>Q</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>S</b>

Other load capacitances are available. Min. 6pF