



SMD Quartz Crystal - SMD 3225 - 4 Pads

4 Pads Version - 3.2 x 2.5 x 0.7mm

• Features

- Small size
- Tight tolerance and Stability
- RoHS compliant

• General Specification

Type	SMD 3.2 x 2.5 - 4 Pads
Frequency Range	12.000MHz to 50.000MHz
Frequency Tolerance at 25°C	± 10ppm to ± 100ppm *
Frequency Stability	± 10ppm to ± 100ppm *
Operating Temperature	-10°C to +60°C *
Load Capacitance	12pF Standard (8 to 30pF / Series)
Shunt Capacitance	7pF max *
Storage Temperature	-40°C to +85°C *
Drive Level	100µW *
Aging	± 5ppm max first year *

* Can be changed according to Customer's requirement.

• Drive Level Codes (µW)

A = 100	B = 200	D = 50	E = 300	G = 500	I = 10
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• Load Capacitance Codes

12pF = A	12.5pF = B	14pF = C	16pF = D	17pF = E	18pF = F
20pF = G	25pF = H	30pF = I	Series = L	13pF = M	27pF = N
10pF = P	15pF = Q	22pF = R	15.8pF = S	8.5pF = T	8.2pF = U
9pF = W	11pF = X	13.8pF = Y	19.6pF = Z	8pF = e	19pF = f

• Operating Temperature Codes(°C)

A = -10 to +60	B = -20 to +70	C = -10 to +70	I = -40 to +85	X = -30 to +80	W = -10 to +50
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Please contact us for the parameters you could not find in these tables.

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• Frequency Tolerance & Frequency Stability Codes (ppm)

P = ± 10	S = ± 20	T = ± 30	U = ± 50	V = ± 100	W = ± 5
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• Frequency Stability vs. Operating Temperature

	± 10ppm	± 20ppm	± 30ppm	± 50ppm	± 100ppm
-10°C- +60°C	⊙	⊙	●	⊙	⊙
-10°C- +70°C	⊙	⊙	●	⊙	⊙
-20°C- +70°C	⊙	⊙	●	●	⊙
-40°C- +85°C			⊙	●	⊙

⊙ Available ● Standard

• ESR (Series Resistance Rs) vs Standard Frequency, Vibration Mode & Codes

Typical Frequency Range (MHz)	ESR Max (Ω)	Code	Vibration Mode	Code
12.000 - 12.999	120	e	AT Fund	A
13.000 - 15.999	100	b	AT Fund	A
16.000 - 29.999	80	0	AT Fund	A
30.000 - 39.999	60	1	AT Fund	A
40.000 - 50.000	50	2	AT Fund	A
25.000 - 30.000	40	4	AT Fund	A

Remark: ESR can be adjusted to other frequencies than typical mentioned. In such case, please approach Company for verification.

• Marking

NEW(Company Brand)

Frequency + Date code (Year Code + Month Code)

Year Code:

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	2	3	4	5	6	7	8	9	10	11	12

Month Code:

Jan	Feb.	Mar	April	May	June	July	Aug.	Sept	Oct	Nov	Dec
A	B	C	D	E	F	G	H	I	J	K	L

**For Example: NEW
 25YM**

NEWXTAL - New Crystal

Website: www.newxtal.com

Email: sales@newxtal.com

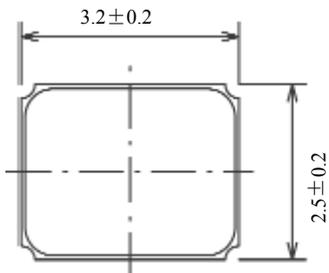
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Ordering Information

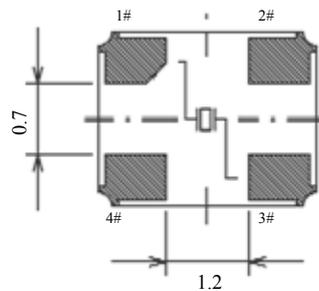
SMD	Terminal	Size	Drive Level	Load Capacitance	Operating Temperature	Frequency Tolerance	Frequency Stability	ESR	Vibration Mode	Frequency	Lead-free	Packing	
			(μ W)	(pF)	($^{\circ}$ C)	(ppm)	(ppm)	(Ω)		(MHz)			
SMD Crystal	1=4 Pads	E=3.2x2.5	See Tables								xx.xxxM	LF	TR
			100	16	-10 to +60	± 10	± 10	80	AT Fund		Lead-free	Tape & reel	
S	1	E	A	D	A	P	P	0	A		LF	TR	

For Example: S1EADAPP0A-26.000MLF/TR

Dimensions



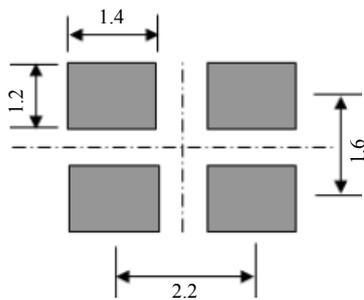
Top view



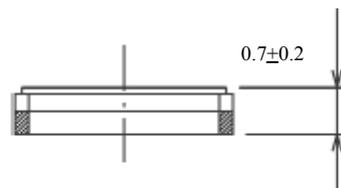
Bottom view

Pin Connection

- 1# Crystal
- 2# Connected with a cover
- 3# Crystal
- 4# Connected with a cover



Pad layout



Side view

in mm

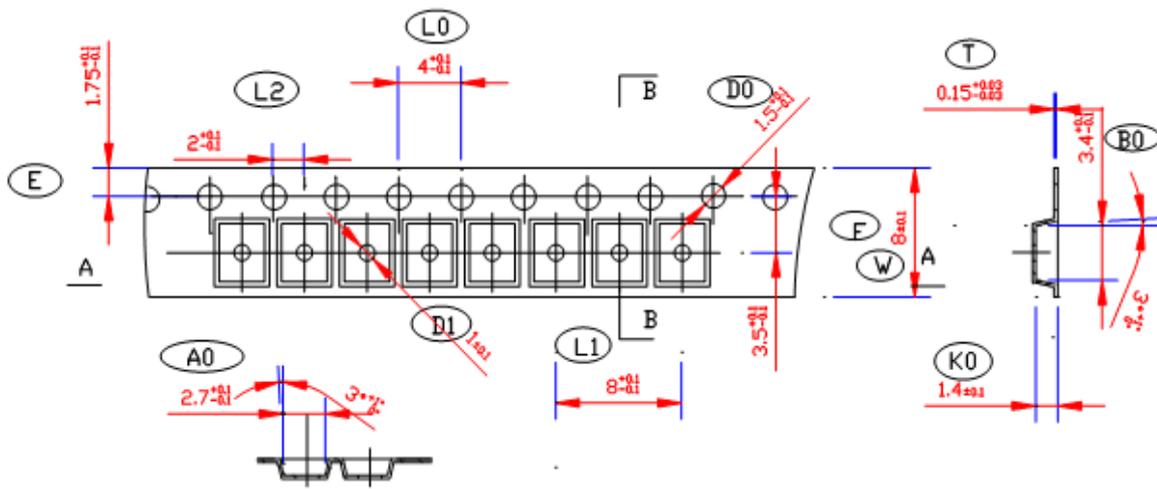
NEWXTAL - New Crystal

Website: www.newxtal.com

Email: sales@newxtal.com

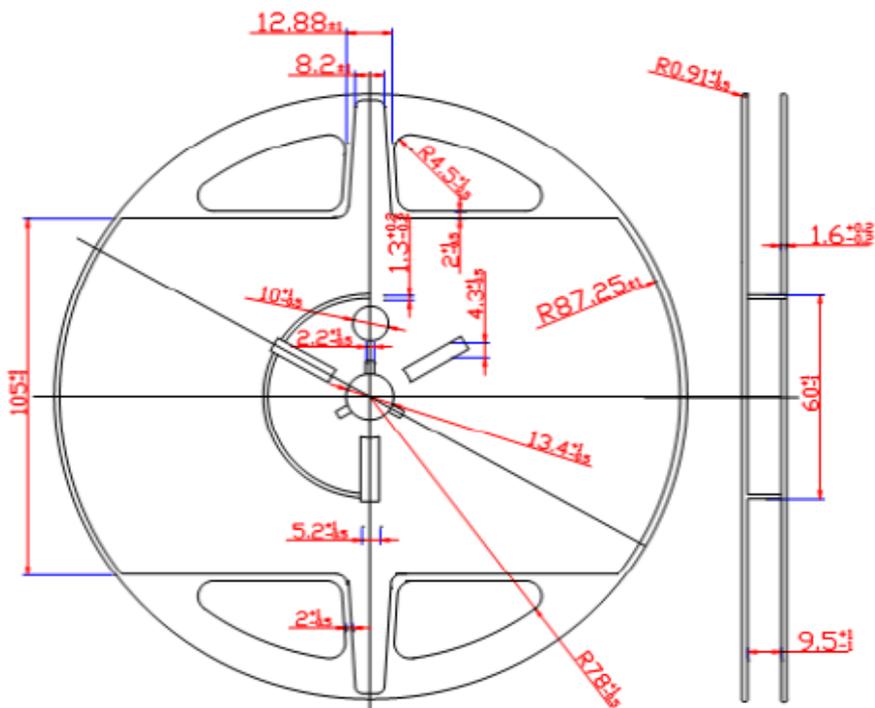
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- Taping Specification



A-A

B-B	A0=2.7 ± 0.1
	B0=3.4 ± 0.1
	K0=1.4 ± 0.1



* Reel Quantity: 3,000pcs

in mm

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- Reflow Soldering Profile

Following profile of the heat stress is applied to crystal, then being place in the room condition for 1 hour, crystal shall be measured.

