

4 Pads Version - 7.0 x 5.0 x 1.3mm

Features

Small size

Tight tolerance and Stability

RoHS compliant

General Specification

Туре	SMD 7.0 x 5.0 - 4 Pads
Frequency Range	6.000MHz to 150.000MHz
Frequency Tolerance at 25°C	± 30ppm *
Frequency Stability	<u>+</u> 30ppm *
Operating Temperature	-10°C to +60°C *
Load Capacitance	8pF to 32pF / 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 = 1	00	B = 200	D = 50	E = 300	G = 500	I =10

Load Capacitance Codes

12pF = A	12.5pF = B	14pF = C	16pF = D	17pF = E	18pF = F
20pF = G	25pF = H	30pF= I	32pF = J	33pF = K	Series = L
13pF = M	27pF = N	50pF = O	10pF = P	15pF = Q	22pF = R
15.8pF = S	8.5pF = T	8.2pF = U	40pF = V	9pF = W	11pF = X
13.8pF = Y	19.6pF = Z	6pF = a	7pF = d	8pF = e	19pF = f

• Operating Temperature Codes(℃)

A = -10 to +60	B = -20 to +70	C = -10 to +70	I = -40 to +85	X = -30 to +80	W = -10 to +50
10 to 100	B 20 to 170	C 10 to 170	1 10 to 103	21 30 10 100	W 10 to 150

Pls contact us for the parameters you could not find in these tables.

• Frequency Tolerance & Frequency Stability Codes (ppm)

$P = \pm 10$ $S = \pm 20$ $T = \pm 30$ $U = \pm 50$ $V = \pm 100$ $W = \pm 50$
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• Frequency Stability vs. Operating Temperature

	<u>+</u> 10ppm	<u>+</u> 20ppm	<u>+</u> 30ppm	<u>+</u> 50ppm	<u>+</u> 100ppm
-10°C-+60°C	\odot	·	•	\odot	·
-10°C- +70°C	\odot	\odot	•	\odot	\odot
-20°C- +70°C	\odot	\odot	•	•	\odot
-40°C- +85°C			\odot	•	\odot

 [○] Available

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

Frequency Range	ESR Max	Code	Vibration Mode	Code
(MHz)	(Ω)			
6.0000 - 8.000	100	0	AT Fund	A
8.0001 - 9.999	80	0	AT Fund	A
10.000 - 13.999	60	1	AT Fund	A
14.000 - 24.999	50	2	AT Fund	A
25.000 - 40.000	40	4	AT Fund	A
24.000 - 150.00	on request		3rd OT	a3

Marking

 $Frequency + M \, (MHz) + \, \, Date \, code \, \, (\, \, Year \, \, Code + Month \, \, Code \,)$

NEWXTAL (Company Brand)

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	В	С	D	Е	F	G	Н	I	J	K	L

For Example:



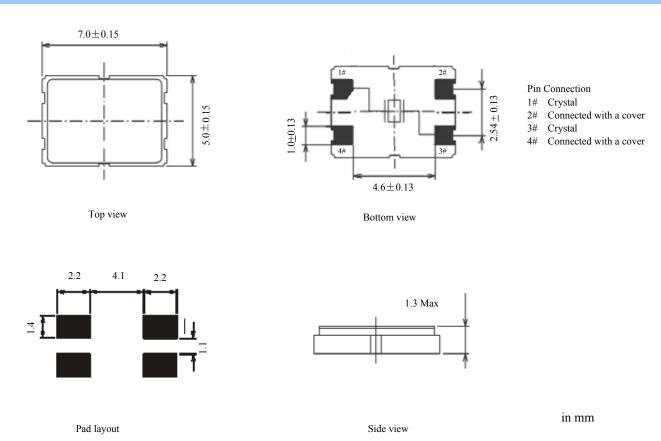
[•] Standard

Ordering Information

SMD	Terminal	Size	Drive Level	Load Capacitance	Operating Temperature	Frequency Tolerance	Frequency Stability	ESR	Vibration Mode	Frequency	Lead-free	Packing
			(µW)	(pF)	(℃)	(ppm)	(ppm)	(Ω)		(MHz)		
SMD Crystal	0=2 Pads 1=4 Pads	A=7.0x5.0		See Tables							LF	TR
			100	16	-10 to +60	<u>+</u> 10	<u>+</u> 10	60	AT Fund		Lead-free	Tape & reel
s	1	A	A	D	A	P	P	1	A	-	LF	TR

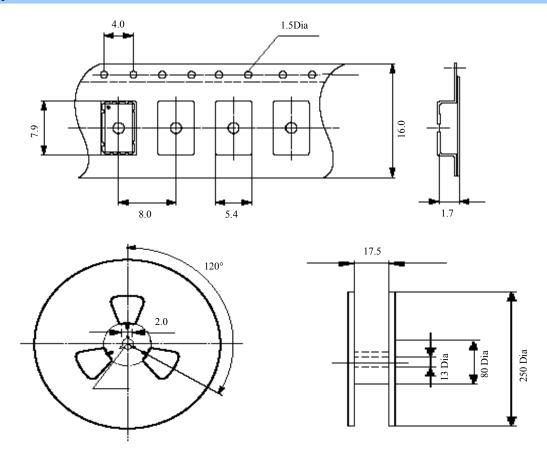
For Example: S1AADAPP1A-12.000MLF/TR

Dimensions



Website: www.newxtal.com Email: sales@newxtal.com

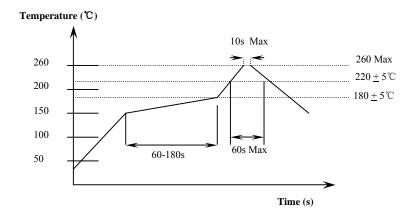
Taping Specification



in mm

* Reel Quantity: 1,000pcs

• Reflow Soldering Profile



NEWXTAL - New Crystal