

SMD Quartz Crystal - HC-49S/SMD - 2 Pads H3.0

SMD 2 Pads Version - 12.5 x 4.6 x 3.0mm

Features

Low cost & wide applications Tight tolerance and Stability RoHS compliant

General Specification

Туре	HC-49S/SMD - 2 Pads / H3.0
Frequency Range	3.20MHz to 90.00MHz
Frequency Tolerance at 25 °C	<u>+</u> 30ppm *
Frequency Stability	<u>+</u> 50ppm *
Operating Temperature	-10°C to +60°C *
Load Capacitance	6pF 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 = 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	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 (°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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• Frequency Tolerance & Frequency Stability Codes (ppm)

$D = \pm 10$	$C = \pm 20$	$T = \pm 20$	11-150	V = +100	W = +5
$P = \pm 10$	$S = \pm 20$	T = +30	$U = \pm 50$	$V = \pm 100$	$W = \pm 3$

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

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

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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℃- +50℃	\odot	\odot	•	\odot	\odot
-10℃-+60℃	\odot	\odot	•	\odot	\odot
-10℃- +70℃	·	\odot	•	\odot	\odot
-20℃- +70℃	·	\odot	•	•	\odot
-30℃-+80℃		\odot	•	•	\odot
-40°C-+85°C			\odot	•	\odot

⊙ Available

• Standard

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

Frequency Range	ESR Max	Code	Vibration Mode	Code
(MHz)	(Ω)			
3.200 - 4.000	150	1	AT Fund	A
4.001 - 5.000	120	2	AT Fund	A
5.001 - 5.999	100	0	AT Fund	A
6.000 - 6.999	80	2	AT Fund	A
7.000 - 8.000	60	4	AT Fund	A
8.001 - 9.999	80	0	AT Fund	A
10.000 - 26.999	50	2	AT Fund	A
27.000 - 35.328	40	4	AT Fund	A
24.000 - 50.000	120	e	3rd OT	a3
50.001 - 90.000	80	0	3rd OT	a3

Marking

Frequency + N (Company brand: Newxtal) + Date code (Year Code + Month Code)

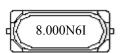
Year Code:

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

Month Code:

Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A	В	С	D	Е	F	G	Н	I	J	K	L

For Example:



NEWXTAL - New Crystal
Website: www.newxtal.com Email: sales@newxtal.com

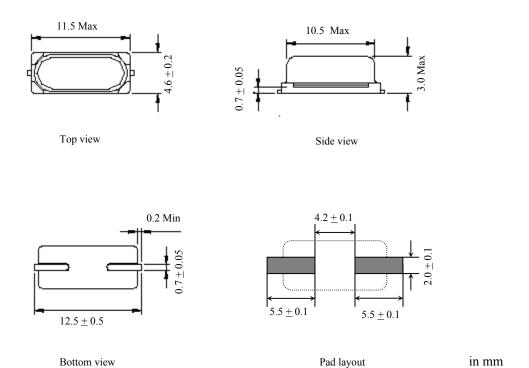
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Ordering Information

Drive Level	Load Capacitance	Operating Temperature	Frequency Tolerance	Frequency Stability	ESR	Туре	Vibration Mode	Frequency	Lead-free	Packing
(µW)	(pF)	(℃)	(ppm)	(ppm)	(Ω)			(MHz)		
	See Tables						See Table	xx.xxxM	LF	TR
100	20	-20 to +70	<u>+</u> 20	<u>+</u> 30	50		AT Fund		Lead-free	Tape & reel
A	G	В	S	T	2	н	A		LF	TR

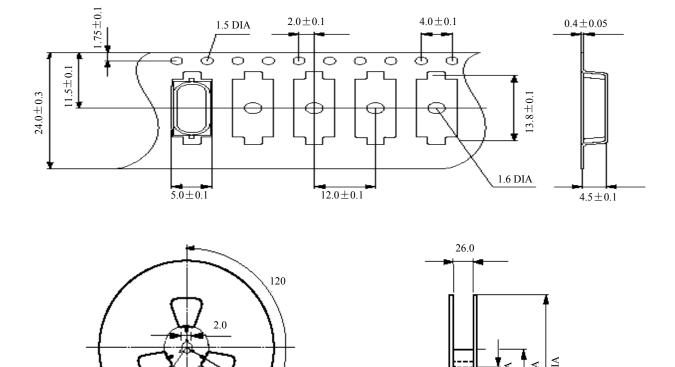
For Example: AGBST2HA-18.400MLF/TR

Dimensions



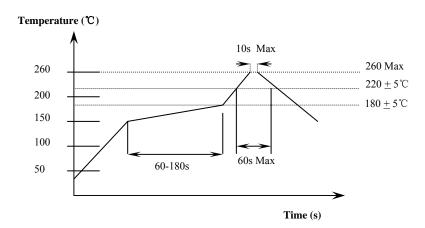
Website: www.newxtal.com Email: sales@newxtal.com

Taping Specification



* Reel Quantity: 1,000pcs in mm

Reflow Soldering Profile



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