

Pin Type - 7.0 x 8.0 x 3.1mm

Features

Low cost & wide applications Tight tolerance and Stability RoHS compliant

General Specification

Туре	UM-1 / HC-52U
Frequency Range	8.000MHz to 200.000MHz
Frequency Tolerance at 25 °C	<u>+</u> 5ppm to <u>+</u> 50ppm
Frequency Stability	<u>+</u> 5ppm to <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	± 3ppm 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)

• Frequency Tolerance & Frequency Stability Codes (ppm)

-5

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

NEWXTAL - New Crystal

• Frequency Stability vs. Operating Temperature

	<u>+</u> 5ppm	<u>+</u> 10ppm	<u>+</u> 20ppm	<u>+</u> 30ppm	<u>+</u> 50ppm
-10℃-+60℃	\odot	\odot	•	•	\odot
-10°C-+70°C	\odot	\odot	•	•	\odot
-20℃- +70℃	\odot	\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)			
8.000 - 50.000	60	1	AT Fund	A
25.000 - 100.00	80	0	3rd OT	a3
80.000 - 155.00	80	0	5th OT	a5
120.000 - 200.00	100	b	7th OT	a7

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

Marking

Frequency + M (MHz) + Date code (Year Code + Month Code)

NEWXTAL (Company brand)

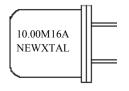
Year Code:

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
12	13	14	15	16	17	18	19	20	21	22	23

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:

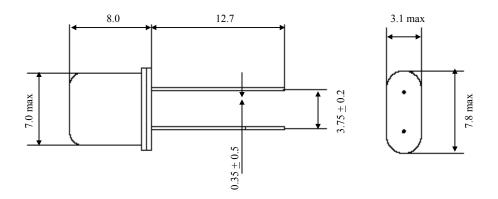


Ordering Information

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					C = UM-1	See Table	xx.xxxM	LF	Blank=bulk
100	20	-10 to +60	<u>+</u> 30	<u>+</u> 30	60		AT Fund		Lead-free	
A	G	A	T	Т	4	C	A	_	LF	

For Example: AGATT4CA-8.000MLF

Dimensions

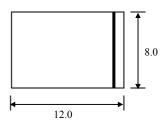


in mm

NEWXTAL - New Crystal

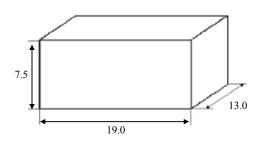
Bulk Packing Specification

1. Plastic Bag:



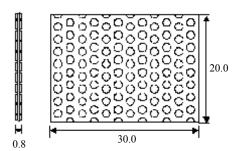
A plastic bag contains: 100pcs

3. Inside Paper Box



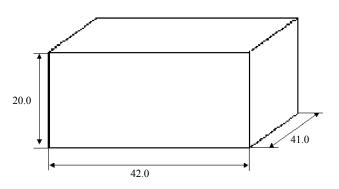
An inside box contains: 1 bubbles bag - 1,000pcs

2. Bubbles Bag



A bubbles bag contains: 10 plastic bags - 1,000pcs

4. Outside Paper Carton



An outside carton contains: 10 inside boxes - 10,000pcs

in cm

Wave Soldering Profile

Bath temperature ($^{\circ}$ C)

