

## AT-41 / AT-41CD2

For OA / AV

### ■ Features

A highly stable and reliable low-height crystal unit with a metallic package, also suitable for surface mounting.

- Compatible with surface mounting.
- Airtight metal package ensures high-reliability.
- Taping package is for customer automatic loading operation.
- AT-41CD2 meets the requirements for re-flow profiling using lead-free solder.



AT-41



AT-41CD2

**Pb Free**

**RoHS Compliant**  
Directive 2002/95/EC

### ■ Specifications

Item	Model	AT-41 / AT-41CD2	
Nominal frequency		3.1375 to 36.864 MHz	26.9 to 74.1 MHz
Overtone order		Fundamental	3rd overtone
Frequency tolerance (25 ±3 °C)		±20 × 10 <sup>-6</sup>	
Frequency versus temperature characteristics (with reference to +25 °C)		±30 × 10 <sup>-6</sup>	
Operating temperature range		-10 to +70 °C	
Storage temperature range		-40 to +85 °C	
Equivalent series resistance		Refer to *1	
Level of drive		Refer to *2 (Max. 1000 µW)	
Load capacitance		16 pF	Series resonance

The above specifications are standard for this NDK product.  
Custom-made specifications such as load capacitance and temperature characteristics are also available.  
Please contact NDK sales with your enquiries.

#### \*1 Equivalent Series Resistance

Overtone Order	Nominal frequency (MHz)	Equivalent Series Resistance max. [Ω]
Fundamental	3 to 3.2	400
	3.2 to 3.5	200
	3.5 to 4	150
	4 to 4.5	120
	4.5 to 5	100
	5 to 6	80
	6 to 8	70
	8 to 10	60
	10 to 12	50
	12 to 37	40
3rd overtone	26 to 35	140
	35 to 48	100
	48 to 75	80

#### \*2 Drive Level

Overtone Order	Nominal frequency (MHz)	Drive Level (µW)
Fundamental	3 to 5	500
	5 to 37	50
3rd overtone	26 to 60	500
	60 to 75	10

### ■ How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following :

Model name - Frequency (Max : 9 digits) M - Number for specifying an order

Example AT-41-16.000M-LN-L-0005

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (<http://www.ndk.com/>).

### ■ Dimensions

