

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.





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■ Specifications

Item Model	AT-41		AT-41CD2		AT-41 / AT-41CD2			
Standard	Star			idard			Optional	
Nominal Frequency (MHz)	3 ≤ F ≤ 37	26 ≤ F < 60	60 ≤ F ≤ 75	3 ≤ F ≤ 37	26 ≤ F < 60	60 ≤ F ≤ 75	4 ≤ F ≤ 37	26 ≤ F ≤ 40
Overtone Order	Fundamental	ental 3rd overtone		Fundamental	I 3rd overtone		Fundamental 3rd overtone	
Frequency Tolerance (25 ±3 °C)	±20 × 10 ⁻⁶		±20 × 10 ⁻⁶		±20 × 10 ⁻⁶			
Frequency versus Temperature Characteristics (with reference to +25 °C)	±30 × 10 ⁻⁶		±30 × 10 ⁻⁶		±30 × 10 ⁻⁶			
Operating Temperature Range (°C)	-10 to +70		-10 to +70		-40 to +85			
Storage Temperature Range (°C)	-40 to +85		-40 to +85		-40 to +85			
Equivalent Series Resistance	Refer to *1		Refer to *1		Refer to *1			
Level of Drive (µW)	Refer to *2 (Max. 1000)		Refer to *2 (Max. 1000)		Refer to *2			
Load Capacitance (pF)	16	Series re	sonance	16 Series resonance		6 to	32	
Frequency Aging (+25 °C)					Max. ±5 × 10 ⁻⁶ / year *3			
Specifications Number	STD-LPH-9	STD-LPH-10	STD-LPH-11	LN-L-0002	STD-LPH-3	STD-LPH-5	Refe	to *4

*1	Fauivalent	Series	Resistance
- 1	Euuivaieiii	Selles	Resistance

"I Equivalent Series Resistance					
Overtone Order	Nominal Frequency (MHz)	ESR Max. (Ω)			
Fundamental	3 ≤ F < 3.2	400			
	3.2 ≤ F < 3.5	200			
	3.5 ≤ F < 4	150			
	4 ≤ F < 4.5	120			
	4.5 ≤ F < 5	100			
	5 ≤ F < 6	80			
	6 ≤ F < 8	70			
	8 ≤ F < 10	60			
	10 ≤ F < 12	50			
	12 ≤ F ≤ 37	40			
3rd overtone	26 ≤ F < 35	140			
	35 ≤ F < 48	100			
	48 ≤ F ≤ 75	80			

*2	Level	of	Drive

Overtone Order	Nominal Frequency (MHz)	Level of Drive (µW)	Overtone Order	Nominal Frequency (MHz)	Level of Drive (µW)
Fundamental	3≤F<5	500	3rd	26 ≤ F < 60	500
	5 ≤ F ≤ 37	50	overtone	60 ≤ F ≤ 75	10

Please specify the model name, frequency, and specification number when you order products.

For further questions regarding specifications, please feel free to contact us.

- *3 If you have any other requests, NDK will study it.
- *4 Ordering information: Overtone Order Fundamental / 3rd Overtone, the Operating Temperature Range, Frequency versus Temperature Characteristics, Frequency Tolerance, and Load Capacitance.
 - Ex. Model, Frequency (24.000000MHz 6digits), S1: Fundamental or S3: 3rd overtone Operating Temperature Range (-40 to +85°C) Frequency versus Temperature Characteristics (±30 × 10⁻⁶) Frequency Tolerance (±20 × 10⁻⁶) Load Capacitance (10pF) AT-41
 - 24.000000MHz
 - S1-4085-30-20-10

■ Dimensions



