



UM Thru Hole Type Crystals

■ Holder Type: 1U / 5U

Frequency Range:

3.5 MHz to 100 MHz

Features:

- High Reliability & Low Cost Unit
- Tight Stability & Extended Temperature Available
- Lead-free Type



QUARTZ
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■ Standard Specifications

Item	1U	5U
Frequency Range	3.5 to 100 MHz	10 to 100 MHz
Frequency Tolerance @ 25 °C	±30ppm (tighter tolerance also available)	
Frequency Tolerance over Temperature Range	±50ppm (tighter tolerance also available)	
Operating Temperature Range	-10 °C to +60 °C (other operating range also available)	
Operable Temperature Range	-40 °C to +85 °C	
Equivalent Series Resistance (ESR)	Please refer to the ESR Table	
Drive Level	50µW Typ. (300µW Max.)	
Load Capacitance	12pF (3pF, 4.5pF, 6pF and series also available)	
Ageing	±5ppm/year	

■ ESR Table

1U			5U		
Frequency Range (MHz)	Mode	Standard ESR (Ohm)	Frequency Range (MHz)	Mode	Standard ESR (Ohm)
3.5 to 4.5	AT Cut Fund.	200	10.0 to 12.0	AT Cut Fund.	120
4.5 to 6.0	AT Cut Fund.	150	12.0 to 13.0	AT Cut Fund.	80
6.0 to 7.0	AT Cut Fund.	120	13.0 to 50.0	AT Cut Fund.	40
7.0 to 8.0	AT Cut Fund.	100			
8.0 to 9.0	AT Cut Fund.	60			
9.0 to 11.0	AT Cut Fund.	40			
11.0 to 13.0	AT Cut Fund.	35			
13.0 to 50.0	AT Cut Fund.	30			
26.0 to 100.0	3rd Overtone	45			

Note:

1. Manufacturer reserves the right to change the specification and content of this product for improvement without notification.
2. Custom specification is welcome. Please contact our sales representative for further details.
3. If the crystal is intended for applications which have direct impact on human life and properties, and require a high degree of reliability and safety concerns, customers must provide full information such as but not limit to the application, electrical and reliability specification at the inquiry beginning stage.
4. Customers have to agree to the "Guideline for handling crystal units" and "Standard Terms and Condition of Sales" which is printed this catalog before placing orders to our company or our distributors. There are also unpredictable factors such as applied condition, oscillation margin and etc and customers must check them beforehand. In case of queries, please do not fail to send inquiry to our company before ordering.

<http://www.hongkongcrystal.com>
 E-mail: China: sales.cn@hongkongcrystal.com
 HongKong/Overseas: inquiry@hongkongcrystal.com

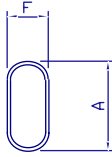
HongKong/Overseas
 Shenzhen: T: +86 755 8321 1111

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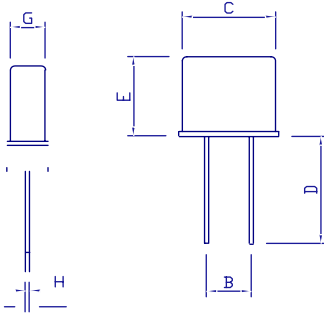
TELCONA AG • Im Vorderasp 4 • CH-8154 Oberglatt • Switzerland
 Tel. +41 (0) 44 860 25 50 • Fax +41 (0) 44 860 28 22
info@telcona.com • www.telcona.com



■ Dimensions (mm)



TOP VIEW



FRONT VIEW

SIDE VIEW

UM1&UM5 CRYSTAL		
ITEM	DIMENSION	
A	7.7±0.15	
B	3.75±0.2	
C	6.9±0.1	
D	1.LEAD LENGTH 13.0±0.5MM(STANDARD) 2.LEAD LENGTH (5.0-13.2)±0.5MM REFER TO CUSTOMER REQUEST	
E	1U	8.0MAX
	5U	6.0MAX.
F	3.2±0.2	
G	2.2±0.1	
H	∅0.35±0.05	

MARKING INFORMATION



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