

6D (UM-1)

[7.8×3.2×8.0 mm]

6E (UM-5)

[7.8×3.2×6.0 mm]

Thru-hole Type

Tolerance

±10ppm ~ ±50ppm

Frequency Range

3MHz~200MHz

Features

- Resistance welder type crystal units
- Wide frequency range from 3MHz to 200MHz
- A great number of standard frequencies
- Excellent aging characteristics
- Uniform frequency tuning range and modulation sensitivity
- Applications: TV, STB, LCDM, Communication, Mobile radio communications, Cable modem, etc
- RoHS Compliant / Pb-Free



Standard Specifications

Item / Type	6D (UM-1)	6E (UM-5)
Frequency Range	3.579545~200 MHz(Fund. /3rd /5th /7th)	
Load Capacitance	Series of Parallel (8 to 32pF) resonance, or specify	
Drive Level	100 μW typical (500 μW max.)	
Frequency Tolerance (at 25°C)	± 10ppm, ±20ppm, ±30ppm, ±50ppm, or specify	
Aging	±3ppm / Year (max.)	
Storage Temperature Range	-55°C~+125°C	

ESR (Equivalent Series Resistance)

Fundamental		3rd Overtone		5th / 7th Overtone	
Frequency Range	E.S.R	Frequency Range	E.S.R	Frequency Range	E.S.R
3~5MHz	100 Ω max.	24~35MHz	40 Ω max.	100~200MHz	100 Ω max.
5~6MHz	90 Ω max.	35~100MHz	80 Ω max.		
6~7MHz	80 Ω max.				
7~10MHz	60 Ω max.				
10~16MHz	50 Ω max.				
16~24MHz	40 Ω max.				

Frequency stability Vs Operating temperature range

ppm Temp. (°C)	±5	±10	±15	±20	±25	±30	±50
-10~+60	○	○	○	○	○	○	○
-20~+70	▲	○	○	○	○	○	○
-40~+85	×	▲	○	○	○	○	○

▲: Conditional

○: Available

×: Not available

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[7.8×3.2×6.0 mm]

Thru-hole Type

Tolerance

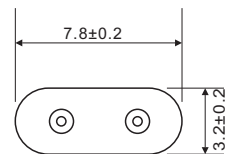
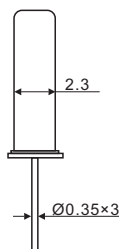
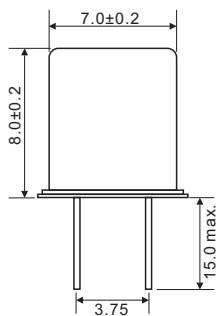
±10ppm ~ ±50ppm

Frequency Range

4MHz~200MHz

Outline Dimensions (Unit: mm)

6D (UM-1)



6E (UM-5)

