

## 10MHz - 200MHz series

Frequency Range	周波数範囲	10MHz ~ 200MHz
Crystal Cut	カット	AT
Mode of Oscillation	振動モード	Fundamental, 3rd, 5th
Frequency Tolerance (at25°C)	周波数偏差	±2.5 ~ ±50ppm
Load Capacitance	負荷容量	Please Specify
Shunt Capacitance (CO)	並列容量	7pF max
Drive Level	励振レベル	10 ~ 2000 μW
Aging	エージング	±1 ~ ±5ppm / year
Storage Temperature Range	動作温度範囲	-40 ~ +85°C
Case Type	ケース	UM-4, UM-4S

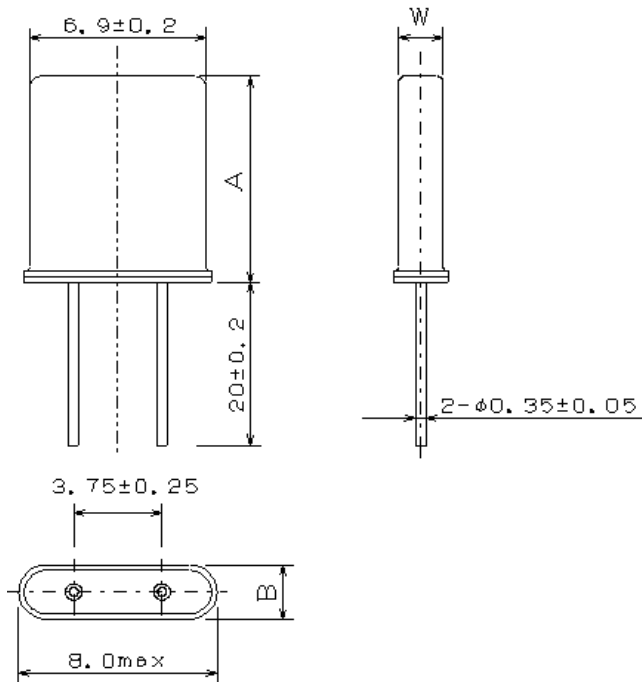
### Frequency and Equivalent Series Resistance (E.S.R)

Frequency (MHz)	Mode	E.S.R (Ω)
10 ~ 12	Fundamental	60
12 ~ 15	Fundamental	60
15 ~ 20	Fundamental	60
20 ~ 60	Fundamental	30
60 ~ 90	3rd OT	80
90 ~ 180	3rd OT	60
100 ~ 200	5th OT	100

### Frequency Stability

		Stability
Operating Temp. Rang	0 ~ 50°C	±2.5ppm MIN
	-5 ~ 55°C	±5.0ppm MIN
	-10 ~ 60°C	±5.0ppm MIN
	-15 ~ 65°C	±10.0ppm MIN
	-20 ~ 70°C	±10.0ppm MIN
	-25 ~ 75°C	±12.0ppm MIN
	-30 ~ 80°C	±15.0ppm MIN
	-40 ~ 85°C	±15.0ppm MIN

### Dimensions(Unit:mm)



Case	A	B	W
UM-4	4.5max	$3.0 \pm 0.2$	$2.2 \pm 0.2$
UM-4S	4.5max	$2.5 \pm 0.2$	$1.8 \pm 0.2$

**C4-5のMJタイプも対応可能です。**  
Even the MJ type of C4-5 is possible correspond.