

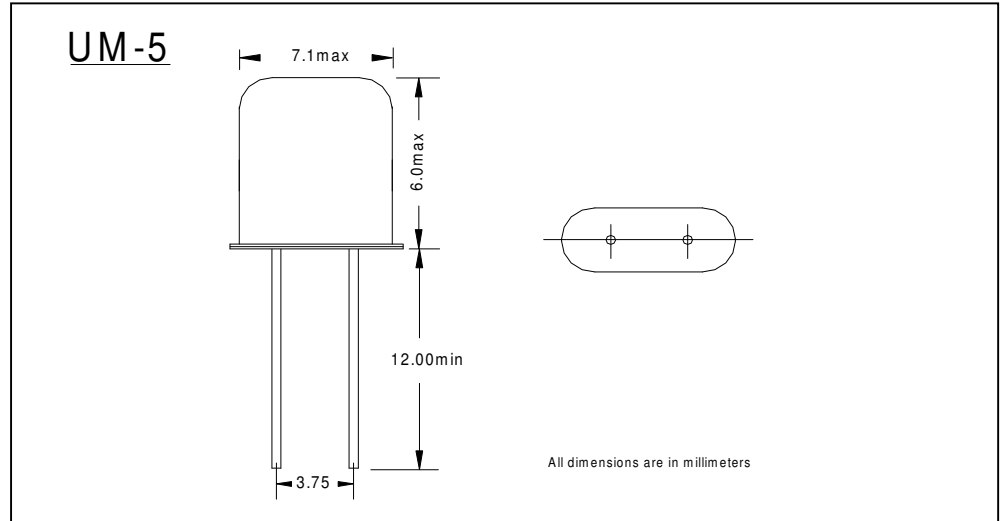
UM-5

Features

compact
extremely high stability
extremely slow aging

Applications

Bluetooth
GPS / HDD
WLAN PDA / Modem
Pager



Specifications

VIBRATION MODE:	fundamental / third overtone / fifth overtone
FREQUENCY TOLERANCE AT 25°C:	±10ppm ~ ±50ppm
LOADING CAPACITANCE:	10pF~ 32pF or series
SHUNT CAPACITANCE:	7.0pF max.
EQUIVALENT SERIES RESISTANCE:	see Resistance Table
FREQUENCY VS. OPERATING TEMP:	see Frequency vs Operating Temp Table
DRIVE LEVEL:	10 • W ~1000 • W
INSULATION RESISTANCE:	500MΩmin / DC 100V
STORAGE TEMPERATURE RANGE:	-40°C ~ +85°C

Resistance Table (ESR)

Frequency Range(MHz):	UM-1 / SMD	UM-5 / SMD	Vibration mode
3.500+ ~ 4.000	200	-	fundamental
4.000+ ~ 5.000	150	-	fundamental
5.000+ ~ 10.000	60	-	fundamental
10.000+ ~ 15.000	40	60	fundamental
15.000+ ~ 30.000	30	35	fundamental
30.000+ ~ 50.000	45	50	third overtone
50.000+ ~ 100.000	60	60	third overtone
100.000+ ~ 160.000	80	90	fifth overtone

Frequency vs Operating Temp Table

Temp(°C)	PPM	±5	±7.5	±10	±15	±20	±30	±50
0 ~ +50		*	*	*	*	*	*	*
-10 ~ +60		*	*	*	*	*	*	*
-20 ~ +70		*	*	*	*	*	*	*
-30 ~ +80			*	*	*	*	*	*
-40 ~ +85				*	*	*	*	*