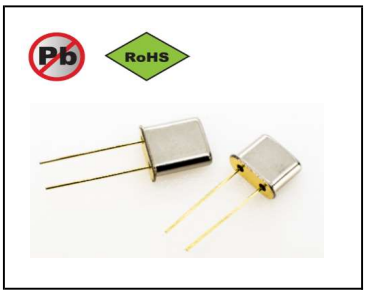
UM-5 CRYSTAL UNIT



■ **UM type XTAL Height : 6.0mm**

- Miniature Metal Thru-Hole package
- Fundamental, 3rd and 5th overtone crystal design
- Tight stability and Metal Jacket & Gullwing available

● Applications : Consumer electronics, Industrial applications, Mobile Communications

■ Standard Specification

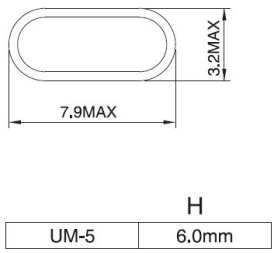
Frequency range	7.680MHz to 200.000MHz	
Oscillation mode	Fundmental, 3rd & 5th overtone	
Load capacitance (CL)	6pF to 32pF or please specify	
Frequency tolerance (25℃)	±10ppm, ±20ppm, ±30ppm	
Frequency Stability vs Temp range	Temp Stability	Operating temp
	±10ppm ±15ppm ±20ppm ±30ppm ±50ppm	-10 to +60℃ -20 to +70℃ -40 to +85℃
Storage temperature range	-55℃ to +125℃	
Shunt Capacitance (C0)	7.0pF Max	
Level of drive (DL)	100㎼ Max (std) or please specify	
Aging (Initial first year)	± 3ppm Max	

■ Motional resistance (ESR)

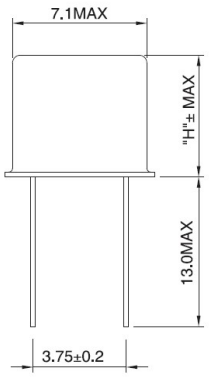
Frequency (MHz)	7.68 ≤ f < 10	10 ≤ f < 30	30 ≤ f < 125	125 ≤ f < 200
CI (Ω) max	80	50	70	100
Oscillation mode	Fundmental		3rd	5th

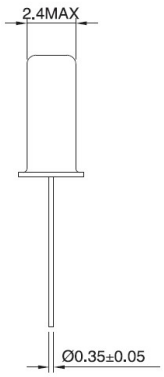
*Please contact us for lower ESR

■ Dimensions (mm)

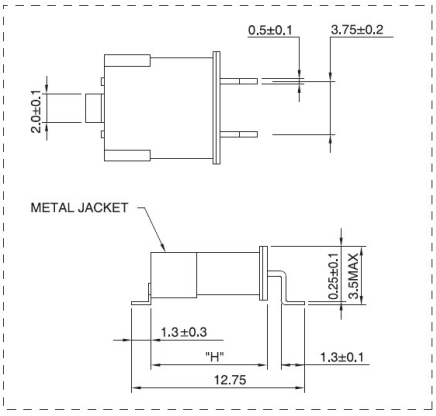


H	
UM-5	6.0mm





● UM Gullwing



Human & Science H&S HighTech Corp. Address : 62-7 Techno 1-ro, Yuseong-Gu, Daejeon, 34014, Republic of Korea
Email : sales@hnshightech.com | Tel : +82-42-866-1300 http://hnshightech.com:3000/product/frequency/7

■ Part Numbering Guide

UM5 10 1 30 AJ 24.000000 G TR

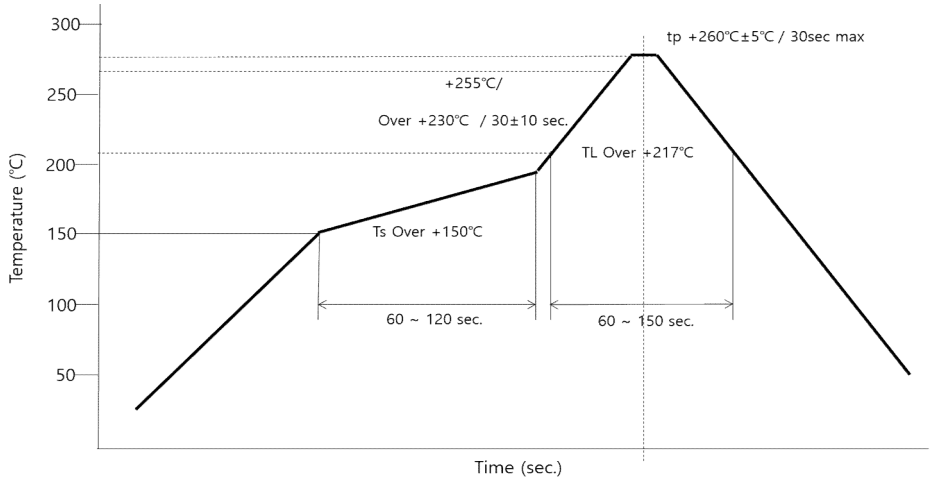
- ▶Package Type
- ▶Load Capacitance (pF)
- ▶(1) : Fund. AT, (3) : 3rd OT
  (5) : 5th OT
- ▶@25℃ Tolerance (±ppm)
- ▶Stability(ppm) vs. Temperature Range(℃)
- ▶Center Frequency : xxx.xxxxxxMHZ
- ▶(G) : Gullwing&Jacket
- ▶Packing Type
  (Blank) : Bulk, (TR) : Tape&Reel [500pcs]

■ Frequency Stability vs. Temperature Range

Temp' vs Stability		±10ppm	±15ppm	±20ppm	±25ppm	±30ppm	±50ppm	±100ppm	±150ppm
		J	K	L	M	N	O	P	Q
-10 ~ 60℃	A	◎	◎	◎	◎	◎	◎	◎	◎
-10 ~ 70℃	B	◎	◎	◎	◎	◎	◎	◎	◎
-20 ~ 70℃	C	◎	◎	◎	◎	◎	◎	◎	◎
-30 ~ 70℃	D		◎	◎	◎	◎	◎	◎	◎
-30 ~ 85℃	E		◎	◎	◎	◎	◎	◎	◎
-40 ~ 85℃	F		◎	◎	◎	◎	◎	◎	◎
-40 ~ 90℃	G					◎	◎	◎	◎
-40 ~ 105℃	H					◎	◎	◎	◎
-40 ~ 125℃	I					◎	◎	◎	◎
-40 ~ 150℃	J							◎	◎

*Please contact us for other specifications.

■ Recommendation reflow condition



(1) Reflow soldering heat resistance
Peak Temp. : 265℃, 30sec max.
Heating : 230℃ or higher, 40sec.
Preheating : 150~180℃, 120sec.
Reflow passage times : 2 times

(2) Manual soldering heat resistance
Pressing a soldering iron of 350℃ on the terminal electrode
Soldering touch time : 4sec.
Manual soldering times : 2 times