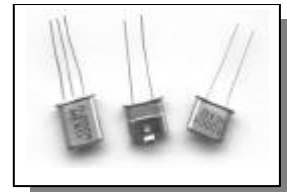




QUARTZ CRYSTALS UNIT  
 ULTRA-MINIATURE CRYSTALS  
 HEX12 -UM-5 UM-5 – SMD CLIP & UM-5-3



FEATURES

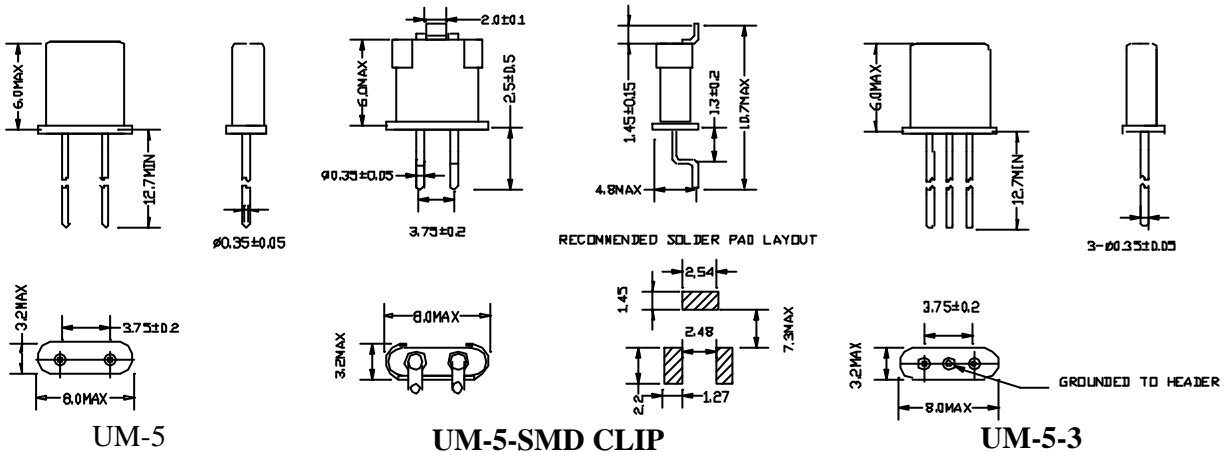
- Wide Frequency Range
- High Precision Crystal
- Hermetically Sealed
- Communication & Microprocessor Crystals

ALTERNATIVE CODE:

- N for STD Package
- 3L for UM-5-3 Lead Base
- S for UM-5-SMD Clip

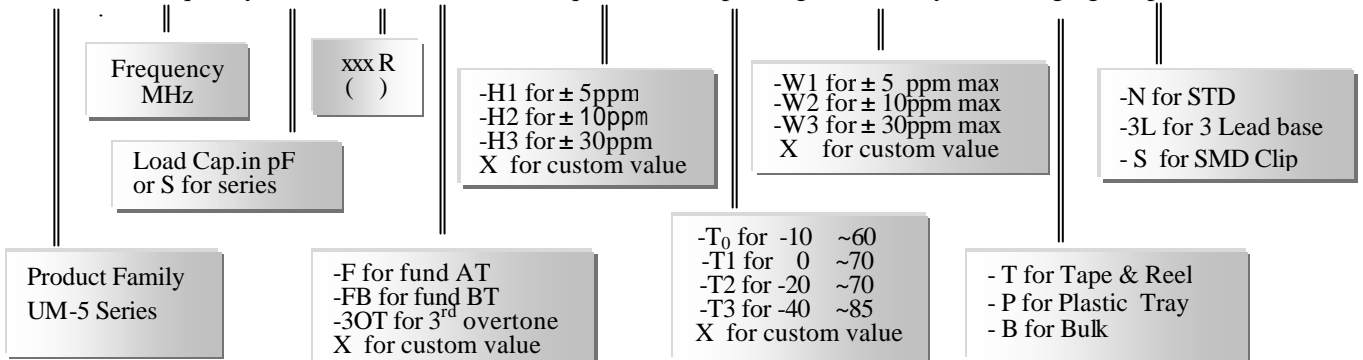
Dimensions : mm

PARAMETER	SPECIFICATION
Frequency Range	10.000 ~ 200.000MHz
Mode of Oscillation	Fund. 10.000 ~ 45.000 MHz 3 rd overtone 40.000 ~ 80.000 MHz 5 th overtone 70.000 ~ 125.000 MHz 7 th overtone 160.000 ~ 200.000 MHz
Equivalent Series Resistance (ESR)	Fund 30 max for F - 10.000 ~ 45.000 MHz 3 rd 60 max for F - 40.000 ~ 80.000 MHz 5 th 90 max for F - 70.000 ~ 125.000 MHz 7 th 140 max for F - 160.000 ~ 200.000 MHz
Operating Temperature	0 ~70 ( See Options )
Storage Temperature	-40 ~ +85
Frequency Tolerance @ 25	± 5ppm~ ± 15ppm max ( See Options )
Frequency Stability Over Temp.	± 50ppm max ( See Options )
Shunt Capacitance C <sub>0</sub>	7.0pF max
Load Capacitance C <sub>L</sub>	8pF ~ 60pF or SR
Drive Level	100uW Typical ( 1mW max )
Aging @ 25 Per Year	± 3ppm ~ ± 5ppm
Insulation Resistance	500M min .at 100Vdc ± 15V



PART NUMBERING - ORDERING OPTIONS:

HEX12 - Frequency - CL - ESR - Mode - Freq. Tol. - Temp. Range - Stability - Packaging - Option



Part Numbering Example : HEX12-20.000MHz-18-60R-F-H2-T2 -W2-B-N

Http : // www. horizonxxtal. com

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