

- Frequency range 1.0MHz to 200MHz
- High-precision crystal ideal for telecoms applications
- High quality resistance weld sealing
- Suitable for reflow soldering

DESCRIPTION

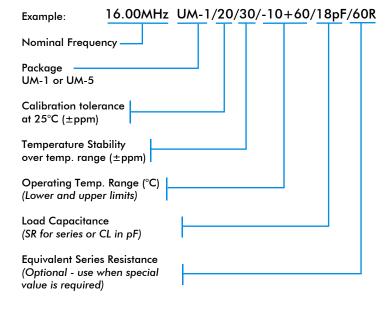
Um-1 and UM-5 crystals are a long-established design, being widely used in telecommunications applications where their compact size and ease of producing to close tolerances makes them an ideal crystal. In addition to the standard packages a 'Slimline' package is also available.

SPECIFICATION

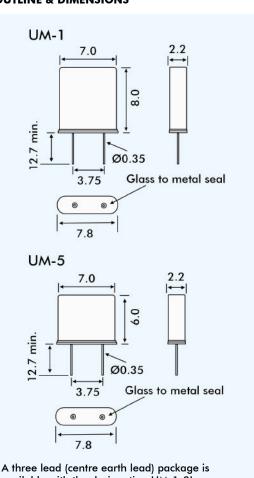
Frequency Range				
	UM-1	1.0MHz to 1.2MHz (SL-Cut)		
		4.0MHz to 200MHz (AT-Cut)		
	UM-5	10MHz to 200MHz (AT-Cut)		
Oscillation Mode	:	See table		
Calibration Tolerance at 25°C				
SL-Cut (<1.3MHz):		from ±50ppm		
AT-C	Cut (>4.0MHz):	from ±3ppm		
Frequency Tolerance				
	SL-Cut:	from ± 100 ppm - 10° to $+60^{\circ}$ C		
	AT-Cut:	from ±3ppm 0° to +50°C		
Shunt Capacitance (C0):		4pF typical, 7pF maximum		
Load Capacitance (CL):		Series or from 8pF to 32pF		
		(Customer specified CL)		
Ageing:		±2ppm maximum, 1st year,		
		±1ppm per year thereafter.		
Drive Level:		100μWatts typ., 500μWatts max.		
Crystal Holder:		Resistance-weld hermetic seal		
Supply format:		Bulk pack		

PART NUMBER GENERATION

Part numbers for UM-1 crystals are generated as follows:



OUTLINE & DIMENSIONS



available with the designation UM-1-3L

ESR and OSCILLATION MODE

Frequency	Crystal Cut	ESR
Range MHz	Osc. Mode	Ohms Max.
1.0 ~1.2	SL Fund.	5k
$4.0 \sim 4.9$	AT Fund.	150
5.0 ~ 5.9	AT Fund.	120
6.0 ~ 6.9	AT Fund.	100
7.0 ~ 7.9	AT Fund.	90
8.0 ~ 8.9	AT Fund.	80
9.0 ~ 10.9	AT Fund.	60
11.0 ~ 12.9	AT Fund.	40
13.0 ~ 45.0	AT Fund.	25
50.1 ~ 100.0	AT 3rd o.	40
80.0 ~ 200.0	AT 5th o.	80