



UM1
UM5

Features:

- Tight tolerance and stability
- Wide frequency range
- Excellent for telecom

Specifications				
		Symbol	UM1 / UM5	Remarks
Frequency range		f	6,000MHz ~ 50,000MHz	Fundamental mode
			30,000MHz ~ 200,000MHz	Overtone mode
Frequency tolerance, Ta=25°C		f/f	± 3ppm ~ ± 50ppm	Please specify
Load capacitance		C _L	5pF ~ 50pF or user specify	Please specify
Temperature tolerance		f/f	±3ppm ~ ± 50ppm	Please specify
Temperature range	Storage temperature	T _{STG}	-40°C ~ +105°C	
	Operating temperature	T _{OPR}	-10°C ~ +70°C	Others are offered
Drive level	Maximum drive level	M _{DL}	1000μW	
	Recommended drive level	R _{DL}	10μW ~ 100μW	
Series resistance		R ₁	As per table	25°C
Shunt capacitance		C ₀	7pF	Max
Insulation resistance		I _R	500M Ohm	
Aging		f _A	± 3ppm/Year ~ ±5ppm	Others are offered

Resistance of series resonance (ESR)						
Frequency (MHz)	Mode	Ohm max		Frequency (MHz)	Mode	Ohm max
6 ≤ f < 10	Fundamental	40		30 ≤ f < 120	3rd OT	40
10 ≤ f < 50	Fundamental	25		75 ≤ f < 200	5th OT	60

Drawing

SERIES	H
UM 1	8.0max
UM 5	5.8max

Dimensions in mm

Order key								
Q	- 20.00000M	- UM1	- F	- 30	- 50	- C	- 30	- 3P
Part	Frequency	Package	Mode of oscillation	Frequency tolerance	Temperature tolerance	Temperature range	Load capacitance	Option
Q=Quartz	M=MHz	UM1 UM5	F=fund. 3=3.OT 5=5.OT	+/-ppm (25°C)	+/-ppm (Temp. range)	A= 0°C ~ 70°C B=-10°C ~ 60°C C=-10°C ~ 70°C D=-20°C ~ 70°C E=-40°C ~ 85°C F=-40°C ~ 105°C G=-40°C ~ 125°C H=-20°C ~ +80°C I=-10°C ~ +50°C	pF SR=series	3P=3Pin version MJ=Metal jacket TA=Taped ammpack I=Isolation washers X=Special options

Remarks: All specifications subject to change without notice!