

CRYSTAL SBX - 16

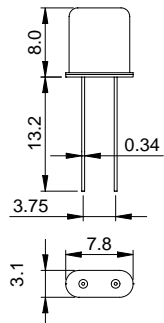
UM SERIES CRYSTAL LEAD TYPE

APPLICATIONS

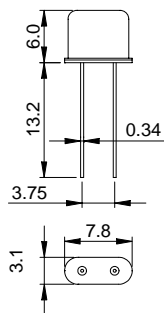
PICTURE
AREA

- ▶ Pager
- ▶ Microprocessor
- ▶ Communication system
- ▶ High reliability and precision

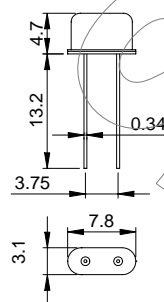
OUTLINE DIMENSIONS



UM - 1



UM - 5



UM - 4

ELECTRICAL SPECIFICATIONS

Frequency range	6.000MHz to 220.000MHz			
Frequency tolerance	±10ppm	±20ppm	±30ppm	±50ppm
Frequency stability	±20ppm	±30ppm	±50ppm	±50ppm
Operating temperature range	-10 °C ~ 70 °C		-30 °C ~ 80 °C	
Storage temperature range	-50 °C ~ 125 °C			
Shunt capacitance (C0)	7pF max.			
Load capacitance (CL)	9.5pF ~ 33pF or Series			
Insulation resistance	500MΩ min. (at 100VDC)			
Drive level	100μW max.			
Aging (at 25 °C)	±5ppm / year max.			
Frequency range	ESR (Ω) max.		Oscillation mode	
UM - 1				
6.0000MHz ~ 7.9999MHz	120		Fundamental	
8.0000MHz ~ 9.9999MHz	100		Fundamental	
10.0000MHz ~ 15.9999MHz	50		Fundamental	
16.0000MHz ~ 50.0000MHz	30		Fundamental	
25.0000MHz ~ 29.9999MHz	50		3'rd overtone	
30.0000MHz ~ 125.0000MHz	40		3'rd overtone	
50.0000MHz ~ 150.9999MHz	90		7'th overtone	
125.0000MHz ~ 220.0000MHz	150		5'th overtone	
UM - 5				
7.0000MHz ~ 7.9999MHz	120		Fundamental	
8.0000MHz ~ 9.9999MHz	100		Fundamental	
10.0000MHz ~ 15.9999MHz	50		Fundamental	
16.0000MHz ~ 50.0000MHz	30		Fundamental	
25.0000MHz ~ 29.9999MHz	50		3'rd overtone	
30.0000MHz ~ 125.0000MHz	40		3'rd overtone	
50.0000MHz ~ 150.9999MHz	90		7'th overtone	
125.0000MHz ~ 220.0000MHz	150		5'th overtone	
UM - 4				
7.0000MHz ~ 7.9999MHz	120		Fundamental	
8.0000MHz ~ 9.9999MHz	100		Fundamental	
10.0000MHz ~ 15.9999MHz	50		Fundamental	
16.0000MHz ~ 50.0000MHz	30		Fundamental	
25.0000MHz ~ 29.9999MHz	50		3'rd overtone	
30.0000MHz ~ 125.0000MHz	40		3'rd overtone	
50.0000MHz ~ 150.9999MHz	90		7'th overtone	
125.0000MHz ~ 220.0000MHz	150		5'th overtone	

ORDERING GUIDE

SBX - 10 - Frequency :
 Load capacitance : pF
 Crystal impedance : Ω
 Stability : ± ppm (at 25 °C)
 Tolerance : ± ppm (°C ~ °C)
 Drive level : μW
 Shunt capacitance : pF

Specifications subjects to change without notice & If you need other specifications, Contact our factory.