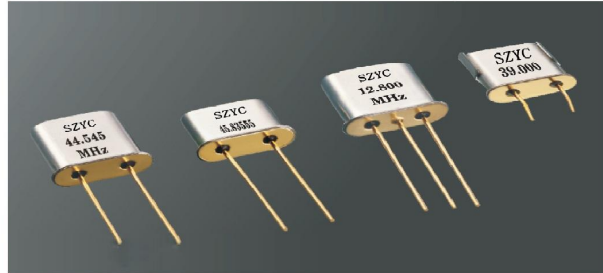




Features

Tight Frequency Tolerance
Wide Frequency Range
Excellent Reliability and Aging
Low Profile
Cost Effective
Excellent Electric Characteristics



Specifications

Type		UM-1,UM-1/SMD	UM-4,UM-4/SMD UM-5,UM-5/SMD
频率范围	AT Fundamental	6.000~50.000MHz	8.000~50.000MHz
Frequency Range(MHz)	3 rd Overtone	30.000~120.000MHz	40.000~120.000MHz
	5 th Overtone	75.000~160.000MHz	75.000~200.000MHz
	Vibration Mode	AT/BT cut,Fundamental,3 rd ,5 th Overtone	
调整频差 (ppm)	Frequency Tolerance (at 25°C)	±3 ~ ±50ppm	
温度频差 (ppm)	Frequency Stability Over Temperature Range	See Table 1	
储存温度 (°C)	Storage Temperature Range	-40°C ~ +85°C	
等效电阻 (Ω)	Equivalent Series Resistance	See Table 2	
静态电容 (pF)	Shunt Capacitance	7.0 pF Max	
负载电容 (pF)	Load Capacitance	5-50pF or Series Resonance	
绝缘电阻 (MΩ)	Insulation Resistance	≥500MΩ //DC100V ± 10V	
激励功率 (μW)	Drive Level	0.01μW ~ 1000μW	
老化率 (ppm/y)	Aging	±2ppm/year, ±3ppm/year, ±5ppm/year	

All specifications subject change without notice.

Frequency Stability over Temperature Range (AT cut) (Table 1)

Temperature Range		±3ppm	±5ppm	±7ppm	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
		03	05	07	10	15	20	30	50
0~+50°C	A	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-5~+55°C	B	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-10~+60°C	C	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-20~+70°C	D	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-30~+85°C	E	/	/	/	Δ	Δ	Δ	Δ	Δ
-40~+85°C	F	/	/	/	Δ	Δ	Δ	Δ	Δ

UM-1,UM-4,UM-5,SMD-Metal Jacket

■ Equivalent Series Resistance (ESR) (Table 2)

Freq. Range (MHz)	Mode of Oscillation	ESR (Ω Max)
6.000 ~ 9.999	AT.Fund	50
10.000 ~ 50.000	AT.Fund	35
30.000 ~ 120.000	3 rd Overtone	40
75.000 ~ 200.000	5 th Overtone	60

■ Options Available

Options Available	Item
V	SMD Type metal jacket package
V	Blister tape & reel packing for SMD Type (1,000 pcs)
V	3 rd lead centred on base
V	Insulator for both 2 leads and 3 leads
V	Lead cut/customer lead length options available
V	Laser marking
V	Special C ₁ or C ₀ requirement
V	Special ESR

■ Dimension (Unit: mm)

