

UM-1(S),UM-1(slim),UM-4(S),UM-5(S)



CRYSTAL SMD DIP

TYPICAL APPLICATIONS

Microprocessor Clock, Network Card, Cable Modems, ADSL, ISDN, Remote Control Device, Network Processor, A/V Card, Wireless Security System

FEATURES

Industry Standard Package, Lead-free, High Reliable Resistance Sealed, Tight Tolerance and Stability, RoHS Compliant Standard



TYPICAL SPECIFICATIONS

Model	UM-1, UM-1(slim), UM-4, UM-5		
Nominal frequency range	3.5~50.00MHz (UM-1) 9.6~50.00MHz (UM-5) 21.0~50.00MHz (UM-4)	30.00~100.00MHz	75.0~160.0MHz
Standard Frequency	8, 10, 12.8, 19.44, 24.576, 38.88, 106.5MHz		
Vibration Mode	Fundamental [AT]	3rd Overtone [AT]	5th Overtone [AT]
Frequency Tolerance (@ +25°C)	±10, ±15, ±20, ±30, ±50 ppm		
Freq. Temp. Characteristics (Ref. to 25°C)	±30 ppm		
Operating Temperature Range	-10°C~+60°C		
Storage Temperature Range	-40°C~+90°C		
Load Capacitance	Series, 16pF, 20pF, 30pF		
Shunt Capacitance	7pF Max.		
Drive Level	10μW (500μW Max.)		
Equivalent Series Resistance	See Table 1		
Aging (+25°C)	±1, ±3 ppm / year Max.		

Please consult with our sales department for other parameters.

* Package quantity 1,000 pcs max./box(dip), 1,000 pcs max./reel(smd).

OUTLINE DIMENSIONS
Unit:mm

UM-1S, UM-4S, UM-5S(SMD)

UM-1, UM-5, UM-4

UM-1 Slim

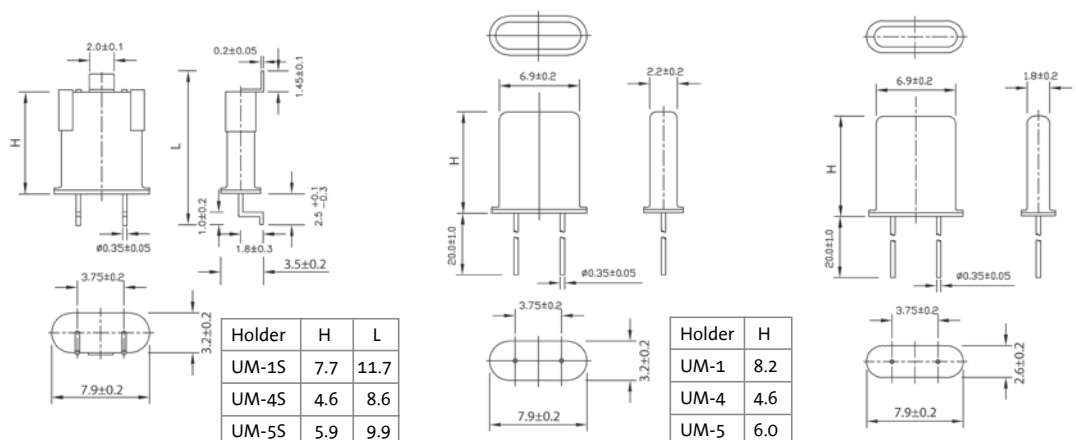


TABLE 1: ESR

AT-cut Fundamental				3rd Overtone			
Frequency (MHz)	ESR (Ω)			Frequency (MHz)	ESR (Ω)		
	UM-1	UM-5	UM-4		UM-1	UM-5	UM-4
3.5~3.99	200			30.0~49.99	45	50	50
4.0~4.99	150			50.0~100.0	50	60	60
5.0~9.99	60						
10.0~14.99	35	45					
15.0~50.00	25	35	35	5th Overtone			
				75.0~160.0	80	90	90

All specifications are subject to change without notice.