

FEATURES

- * Cost effective
- * Excellent aging
- * Wide frequency range
- * Low profile
- * Excellent reliability
- * Tape and Reel (1,000 pcs)

Inscore's UM-1, 5 quartz crystals are ideal for use in compact communication equipment.



OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

		UM-1	UM-5
FREQUENCY RANGE	FUNDAMENTAL	10.000 ~ 30.000 MHz	
	3RD OVERTONE	25.000 ~ 90.000 MHz	30.000 ~ 90.000 MHz
FREQUENCY TOLERANCE (@+25°C)		See Table 1	
FREQUENCY-TEMPERATURE TOLERANCE (@+25°C)		See Table 2	
OPERATING TEMPERATURE RANGE TOPR		See Table 2	
STORAGE TEMPERATURE RANGE TSTG		-40 ~ +90°C	
LOAD CAPACITANCE (CL)		8pF-Series (Customer Specified)	
SHUNT CAPACITANCE (C0)		7 pF max.	
DRIVE LEVEL (DL)		100µW max.	
CRYSTAL CUT		AT-cut	

TABLE 1 FREQUENCY TOLERANCE (@ +25°C)

Tolerance (x10 ⁻⁶)					
±10	±15	±20	±30	±50	
●	●	○	○	○	● recommended ○ available

TABLE 2 FREQUENCY-TEMPERATURE TOLERANCE (@ +25°C)

FREQUENCY	Tolerance (x10 ⁻⁶)						
	±3.0	±5.0	±7.5	±10	±15	±20	±30
0 ~ +50°C	○	○	○	○			
-10 ~ +60°C		○	○	●	○		
-20 ~ +70°C			○	○	○	○	
-30 ~ +75°C					○	○	○
-30 ~ +80°C					○	○	●
-35 ~ +80°C						○	○
-40 ~ +85°C						○	○

PACKAGE DIMENSIONS (mm)

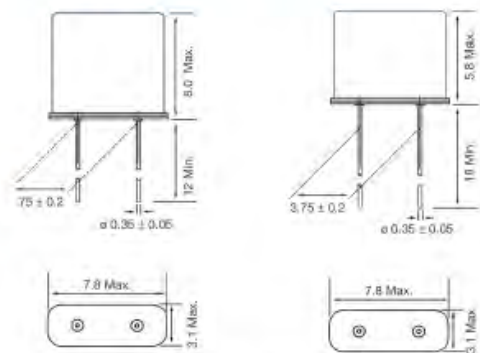


TABLE 3 EQUIVALENT SERIES RESISTANCE / MODE OF OSCILLATION

NOMINAL FREQUENCY (MHz)	MODE	ESR (Ω)	
		UM-1	UM-5
10 ~ 15	FUNDAMENTAL	40 max.	50 max.
15 ~ 30	FUNDAMENTAL	25 max.	30 max.
25 ~ 30	3rd	50 max.	60 max.
30 ~ 90	3rd	45 max.	60 max.