

Quartz Crystals

HUSG

[10.7 * 4.3 * 3.5 mm]

HUSLG

[10.7 * 4.3 * 2.5 mm]

Thru - Hole Crystals

Fundamental

3rd Overtone

Min.

3.2 MHz

Max.

70 MHz

Features

Specifications

- HUSL (2.5mm height) & HUS (3.5mm height)
- Low cost and light weight



RoHS Compliance

General Specifications

Item / Type	HUSL (10.7 * 4.3 * 2.5mm) series	HUS (10.7 * 4.3 * 3.5mm) series
Frequency Range & Crystal Cut	3.2.000 ~ 48.000 MHz , AT-cut , Fundamental Mode (see Table 1) 27.000 ~ 70.000 MHz , AT-cut , 3rd overtone (see Table 1)	
Load Capacitance	Series or Parallel (8 to 32 pF) resonance	
Drive Level	100μ W typical (500μ W max.)	
Frequency Tolerance	± 10 ppm , ± 20 ppm or ± 30 ppm (max.) at 25°C	
Frequency Stability	See Table 2	
Aging	ΔF / F : ±3 ppm (max.)	
Storage Temperature Range	- 50°C to 105°C	

Table 1

ESR (Equivalent Series Resistance)					
Freq.(MHz)	E.S.R.	Osc. Mode	Freq.(MHz)	E.S.R.	Osc. Mode
3.2 ~ 3.4	300 Ω	AT , Fund.	27.0 ~ 30.0	150 Ω	AT , 3rd
3.5 ~ 6.0	120 Ω		30.1 ~ 50.0	100 Ω	
6.1 ~ 10.0	60 Ω		50.1 ~ 70.0	80 Ω	
10.1 ~ 30.0	40 Ω				

Table 2

Frequency stability vs Operating temperature range						
Stability code	Temp. (°C) \ ppm	± 10	± 15	± 20	± 25	± 30
X	-10 to 60°C	○	○	○	○	○
Y	-20 to 70°C	▲	○	○	○	○
I	-40 to 85°C		○	○	○	○

○ : available ; ▲ : contact Mercury

Outline Dimensions (Unit : mm)

