



RoHS Compliant

■ Features (Thru-Hole type)

- Frequency range : 3.2 MHz ~ 70.0 MHz
- Thickness : HUSL (2.5mm) & HUS (3.5mm)
- Because it is the leadless type .
- Reflow is possible .

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Generic Specification

Item / Type	HUSL (10.7*4.3*2.5mm) , HUS (10.7*4.3*3.5mm) series
Frequency Range & Crystal Cut	3.2.000 ~ 30.000 MHz , AT-cut , Fundamental Mode (see Table 1)
	27.000 ~ 70.000 MHz , AT-cut , 3rd overtone (see Table 1)
	24.000 ~ 48.000 MHz , BT-cut , 3rd overtone (see Table 1)
Load Capacitance	Series , 8 ~ 32 pF
Drive Level	100μW (500μW max.)
Frequency Tolerance	± 5 ppm , ± 10 ppm , ± 20 ppm , ± 30 ppm (25°C)
Frequency Stability	See Table 2
Aging	ΔF / F : ±2 ppm (max.)
Storage Temperature Range	- 50 °C to 105°C

ppm : per percent million (1 x 10⁻⁶)

Table 1

Series Resistance (max.)

Freq.(MHz)	Osc. Mode	E.S.R.	Freq.(MHz)	Osc. Mode	E.S.R.
3.2 ~ 3.4	AT, Fund.	300 Ω	24.0~30.0	BT, Fund.	40 Ω
3.5 ~ 6.0	AT, Fund.	120 Ω	27.0~ 30.0	AT, 3rd	150 Ω
6.1~ 10.0	AT, Fund.	60 Ω	30.1~50.0	AT, 3rd	100 Ω
10.1~ 30.0	AT, Fund.	40 Ω	50.1~70.0	AT, 3rd	80 Ω

Table 2

Frequency stability Vs Operating temperature range

Temp. (°C) \ ppm	± 10	± 15	± 20	± 25	± 30
X	-10 to 60	○	○	○	○
Y	-20 to 70	▲	○	○	○
I	-40 to 85		○	○	○

○ : available ; ▲ : contact Mercury

Outline Dimensions (Unit : mm)

