



Features

- > Resistance welded type crystal units.
- > High frequency stability and reliability.
- > A great number of standard frequencies and wide frequency range.
- > Higher frequency pullability and lower equivalent series resistance.
- > Lower cost and highly mass production capacity.
- > The best choice of TV, STB, LCDM, and Cable Modem.
- > RoHS Compliant / Pb Free.

Electrical Specifications

Frequency Range	6.00 ~ 120.00 MHz
Load Capacitance	Series, 6~32 pF, or specify
Frequency Tolerance (at 25 °C)	±10, ±20, ±30 ppm, or specify
Frequency Stability Over Operating Temperature Range	±10, ±20, ±30 ppm, or specify
Operating Temperature Range	-20 ~ +70 °C, -40~+85 °C, or specify
Storage Temperature Range	-40 ~ +85 °C
Shunt Capacitance (C0)	7 pF Max.
Drive Level	1 ~ 1000 µW (100 µW typical)
Insulation Resistance	500 MΩ Minimum at 100VDC
Aging (at 25°C)	±3 ppm / year Max.

Equivalent Series Resistance(ESR)

Frequency Range (MHz)	Mode	ESRΩ(MAX)	
		UM-1	UM-5
6.00~7.99	FUND	45	-
8.00~9.99	FUND	40	40
10.00~14.99	FUND	30	30
15.00~40.00	FUND	25	25
30.00~39.99	3RD	50	50
40.00~49.99	3RD	40	40
50.00~100.0	3RD	35	35
80.00~120.0	5TH	80	80

Frequency Stability Over Operating Temperature Range

Temperature Range	Frequency Stability (ppm)						
	±3	±5	±7.5	±10	±15	±20	±30
0 ~ +50°C	*	*	*	*	*	*	*
-10 ~ +60°C		*	*	*	*	*	*
-20 ~ +70°C			*	*	*	*	*
-30 ~ +80°C				*	*	*	*
-40 ~ +85°C					*	*	*

Dimensions

