

Consumer & Industrial Crystal Units

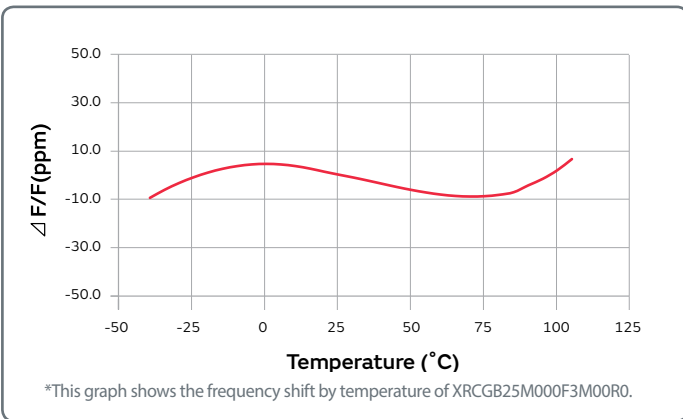
Key features

- Small size: 2.5mm x 2.0mm for 16 to 20MHz
2.0mm x 1.6mm for 24 to 48MHz
- Economical & Robust Design
Simple structure using Murata's proven package technology
Particle screening process for enhanced reliability

Application

- Consumer: Wireless Application(BLE, NFC),
Wired Application (Ethernet, USB2.0/3.0),
Processor (CPU, MPU, DSP), HDD, SSD
PC, Medical/Healthcare, etc...
- Industrial: PLC, LCD, Processor,
Wireless Application(Zigbee), etc

Frequency shift by temperature



Compatibility

Self-alignment test on 3225 land pattern of XRCGB series

Before reflow

After reflow

Land pattern for self-alignment test
(Land pattern for 3.2mm x 2.5mm crystal)

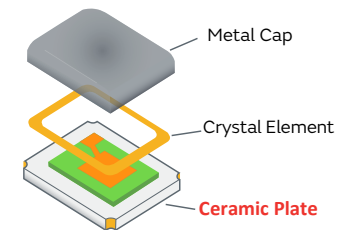
Compatible land pattern



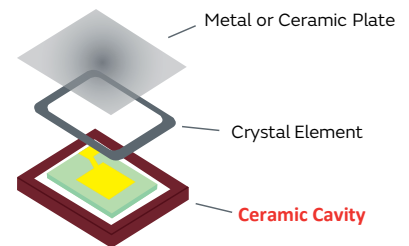
RoHS

Lead free

Murata Crystal Unit



Conventional Crystal Unit

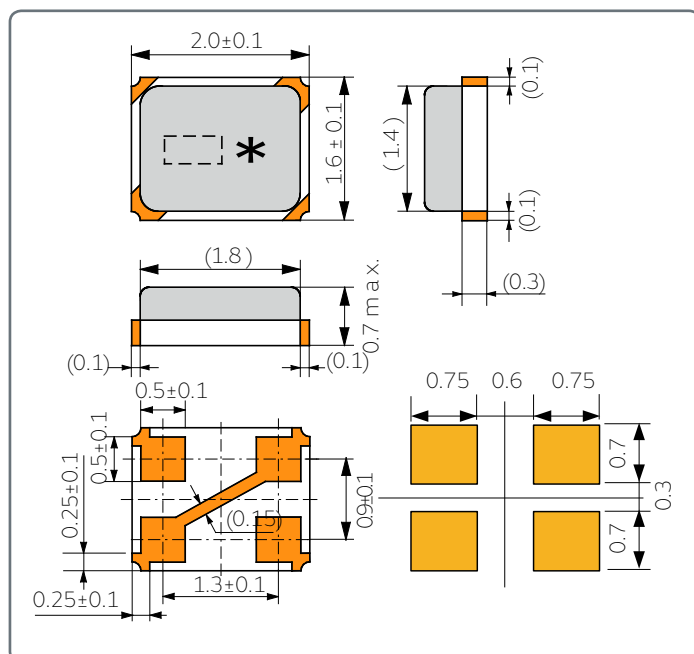


Line-up

Application	P/N	Freq.	Freq. Tolerance	Freq. Shift by Temperature	ESR	Frequency	Load	Drive Level	
		MHZ	(ppm max.)	(ppm max.)	(ohm max.)	(ppm/Y)	(pF)	(uW max.)	
Consumer	XRCHA16M000F0L1R0	16	+/-100	+/-100 (-30 to +85oC)	100	+/-5	8+/-0.1	300	
	XRCHA20M000F0L1R0	20			80				
	XRCGB24M000F2P00R0	24	+/-20	+/-20 (-30 to +85oC)	150		6+/-0.1		
	XRCGB24M576F3M00R0	24.576	+/-30	+/-40 (-30 to +85oC)					
	XRCGB25M000F2P00R0	25	+/-20	+/-20 (-30 to +85oC)					
	XRCGB26M000F2P00R0	26							
	XRCGB27M000F2P00R0	27							
	XRCGB27M120F2P00R0	27.12							
	XRCGB30M000F2P00R0	30	+/-45	+/-40 (-30 to +85oC)	100				
	XRCGB31M250F2P00R0	31.25							
	XRCGB32M000F2P00R0	32							
	XRCGB33M868F4M00R0	33.8688			+/-100 *		+/-100 * (-40 to 105 oC)		100
	XRCGB40M000F4M00R0	40							
	XRCGB48M000F4M00R0	48							
Industrial	XRCHA16M000F0Z01R0	16	+/-100 *	+/-100 * (-40 to 105 oC)	100	+/-5	8+/-0.1	300	
	XRCHA20M000F0Z01R0	20			80				
	XRCGB24M000F0Z00R0	24			150		6+/-0.1		
	XRCGB24M576F0Z00R0	24.576							
	XRCGB25M000F0Z00R0	25							
	XRCGB26M000F0Z00R0	26							
	XRCGB27M000F0Z00R0	27							
	XRCGB27M120F0Z00R0	27.12							
	XRCGB30M000F0Z00R0	30			100				
	XRCGB31M250F0Z00R0	31.25							
	XRCGB32M000F0Z00R0	32							
	XRCGB33M868F0Z00R0	33.8688							
	XRCGB40M000F0Z00R0	40							
	XRCGB48M000F0Z00R0	48							

Dimensions and land pattern

XRCGB Series (24MHz to 48MHz)



XRCHA Series (16MHz to 24MHz)

