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	Ceramic Resonator	ICRA25S25M0X5CE	1

Data Sheet

- ITEM : <u>Ceramic Resonator</u>
- PART NO : ICRA25S25M0X5CE

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SCOPE

This product specification is applied to the piezoelectric ceramic resonator used for time base oscillator in a microcomputer. Please contact us when using this product for any other application than described in the above.

FEATURES

- Scillation circuits do not require external load capacitor
- The series is available in a wide frequency range
- The resonator are extremely small and a low profile

APPLICATION

- Clock oscillators for microprocessors
- Electronic control circuits for small electronic equipment such as hand held movie
- Audio-visual application (Camcorder, Remote Controller, etc.)
- Automotive electronics
- Dual Tone Multi Frequency (DTMF) generator for cordless telephone



PART NUMBER CODE

<u>ICR</u> <u>A</u> <u>25S</u> <u>25M0</u> <u>X</u> <u>5</u> <u>C</u> <u>E</u> (1) (2) (3) (4) (5) (6) (7) (8)

1 Product ID

CODE	PRODUCT NAME
ICR	Ceramic Resonator

② Frequency/Capacitance

CODE	Frequency / Capacitance
Α	MHz No Capacitance Built-in
Т	MHz Built-in Capacitance

3	Chip	Size
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CODE	Structure (Size)	
20S	Small monolithic chip type (2.0×1.2)	
255	Small monolithic chip type (2.5×2.0)	

④ Nominal Center Frequency

- Nominal Center Frequency Expressed by four-digit alphanumeric.
- The unit is in hertz (MHz).
- Decimal point is expressed by capital letter "M".

5 Vibration Mode

CODE	Vibration Mode
х	Thickness Expander mode (3rd overtone)
т	Thickness Expander mode
G	Thickness Shear mode

(6) Vibration Mode

CODE	Frequency Tolerance		
5	± 0.5%		
3	± 0.3%		
1	± 0.1%		
Q	± 0.05%		

⑦ Individual Specification

CODE	Individual Specification		
С	Consumer electronics		
А	Autimotive electronics		

(8) Packaging

CODE	Туре	
В	Bulk pack	
R	Tape & Real pack	
E	Embossed type pack	

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Chip Size





	DIMENSION			
Symbol	2012 SIZE		2520 SIZE	
	2-Term.	3-Term.	2-Term.	3-Term.
А	2.00±0.20	2.00±0.20	2.50±0.20	2.50±0.20
В	1.20±0.20	1.20±0.20	2.00±0.20	2.00±0.20
С	0.65±0.10	0.65±0.10	0.8±0.10	0.8±0.10
	0.8±0.10	0.8±0.10	1.00±0.10	1.00±0.10
D	0.30±0.20	0.30±0.20	0.50±0.20	0.50±0.20
E		0.55±0.20		0.50±0.20
F		0.30±0.20		0.50±0.20

ELECTRICAL CHARACTERISTICS

	ITEM	Specification
1	Nominal Oscillating Frequency	25.00 MHz
	Initial Tolerance	± 0.50 %
2	Resonance Impedance	60Ω (max)
3	Frequency Shift by Temperature (-40℃~+85℃) Operating Temperature Range	± 0.1 % (from initial value) - 40℃ to + 85℃
4	Aging (10 years)	± 0.10 %