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	Ceramic Resonator	ICRT25S30M0X518CE	1

Data Sheet

- ITEM : <u>Ceramic Resonator</u>
- PART NO : ICRT25S30M0X518CE

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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 T 25S 30M0 X 5 18 C E</u> (1) 2 3 4 5 6 7 8 9

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

CODE	Structure (Size)	
205	Small monolithic chip type (2.0×1.2)	
25S	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	

⑦ Capacitance

CODE	Capacitance
08	8pF
11	11pF
14	14pF
18	18pF
20	20pF

(6) Vibration Mode

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

(B) Individual Specification

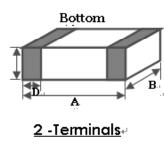
CODE	Individual Specification
С	Consumer electronics
Α	Autimotive electronics

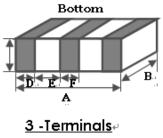
9 Packaging

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

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Chip Size



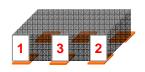


	DIMENSION			
Symbol	2012 SIZE		2520 SIZE	
	2-Term.	3-Term.	2-Term.	3-Term.
Α	2.00±0.20	2.00±0.20	2.50±0.20	2.50±0.20
В	1.20±0.20	1.20±0.20	2.00±0.20	2.00±0.20
	0.65±0.10	0.65±0.10	0.8±0.10	0.8±0.10
C	0.8±0.10	0.8±0.10	1.00±0.10	1.00±0.10
D	0.30±0.20	0.30±0.20	0.50±0.20	0.50±0.20
E		0.55±0.20		0.50±0.20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

ELECTRICAL CHARACTERISTICS

	ITEM	Specification
1	Nominal Oscillating Frequency	30.00 MHz
	Initial Tolerance [1]	\pm 0.50 %
2	Resonance Impedance	60Ω (max)
3	Capacitance ^[2]	18pF ±20 %
4	Frequency Shift by Temperature (-40℃~+85℃) Operating Temperature Range	± 0.1 % (from initial value) - 40 ℃ to + 85 ℃
5	Aging (10 years)	± 0.10 %

[1] Terminal 1 and 3 are interchangeable



[2] Measurement value of terminal between 1(or 2) and 3