Crystal Units Surface Mount Type CX3225SA







3.2×2.5 mm for Automotive





How to Order

CX3225SA 25000 D0 G S S HH 34 5 6 7 (2)

- ①Series (Type and Size)
- ②Frequency (8,000 to 54,000kHz)
- 34Load Capacitance (Unit:pF) Ex.: D1:8.1pF

_	•	٠ .	,	
3lr	nteger part	4 After the decimal poir		
D	8	0	.0	
E	9	1	.1	
F	10	2	.2	
G	11	3	.3	
H	12	4	.4	
z	Special suffix	5	.5	
	Special sullix	6	.6	
		7	.7	
		8	8	

Packaging (Tape & Reel 3000 pcs./ reel)

5Frequency Tolerance

- '	,	
F	±10×10 ⁻⁶	
G	±15×10 ⁻⁶	
Н	±20×10 ⁻⁶	
J	±25×10 ⁻⁶	
K	±30×10 ⁻⁶	
M	±40×10 ⁻⁶	
Р	±50×10 ⁻⁶	
W	All Over	
Z	Special suffix	

Features

- Crystal unit for automotive electronics
- Improved solderability
- Improved mounting stability with 4 terminals
- Improved anti-noise performance with GND terminal
- Ceramic package Small and low profile
- Improved rust prevention performance
- Reflow compatible
- Highly reliable solder junction (3000 heat cycles – 40 to +125° C)

Applications

- ECU TPMS High-Speed Automotive Network

⑥ Operating Temp. Range ⑦ Frequency Temp. Stability
*Frequency of 12,000 kHz or higher is supported. Please contact us for frequencies between 8,000 and 10,000 kHz

		(7)	J	L	N	Q	R	S	T
(6		±15ppm	±20ppm	±25ppm	±30ppm	±40ppm	±50ppm	±100ppm
	L	-30 to 85°C	✓	✓	✓	✓	✓	✓	✓
	Р	-40 to 85°C				✓	√	✓	✓
	R	-40 to 105°C					✓	✓	✓
	S	-40 to 125°C						✓	✓
	T	-40 to 150°C							✓

®Individual Specification (STD Specification is "HH" .)

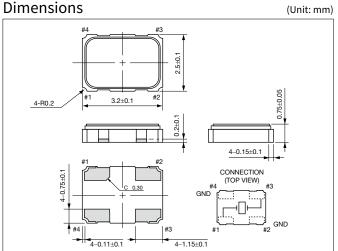
Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f_nom	8000 to 54000	kHz	Please contact us for other frequency range.
Overtone Order	ОТ	Fundamental	_	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	f_tol	±15	×10 ⁻⁶	25° C ± 3° C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10μW(200μW max.)	μW	
Operating Temp. Range	T_use	- 40 to +150	°C	
Storage Temp. Range	T_stg	- 40 to +150	° C	
Frequency Temp. Characteristics	f_tem	± 150	× 10 ⁻⁶	Freq. deviation from the value at 25° C
Shunt capacitance	C0	3.0max.	pF	

◆Table 1 Motional Series Resistance ESR (C1)

Frequency (MHz)	ESR (Ohm)
8≦F<9.8	500
9.8≦F<12	200
12≦F<16	120
16≦F<20	60
20≦F≦54	50

Please contact us for other specifications.



Recommended Land Pattern

(Unit: mm)

