Crystal Units Surface Mount Type CX3225SA



3.2×2.5mm for Automotive



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)
- AEC-Q200 qualified

Applications

- ECU
- TPMS
- High-Speed Automotive Network

How to Order

<u>CX3225SA 12000 DO P T V CC</u>							
	1	2	3	4	(5)	6	7
① Series			(2) Fr	② Frequency			
(3) Load Capacitance (4) Frequency Tolerance						nce	
D 0	8 pF		Ρ	±50×10 ⁻⁶			
$(\underline{5})$ Operating Temp. Range $(\underline{6})$ Frequency Temp. Stability							
TV	-40 to +150°C			±150×10 ⁻⁶			
 Individual Specification (STD Standard is "CC") 							

Packaging (Tape & Reel 3000 pcs./ reel)

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_nom	8000 to 54000	kHz	
Overtone Order	ОТ	Fundamental	_	
Load Capacitance	CL	8	pF	Please contact us for other Load Capacitance.
Frequency Tolerance	f_tol	±15	×10 ⁻⁶	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	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

Please contact us for other specifications.

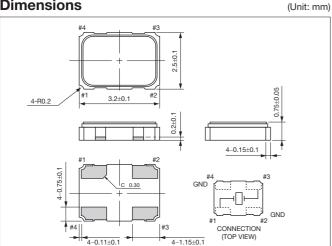
Table1 Motional Series Resistance

Frequency Range	Motional Series Resistance		
8000≤f_nom< 9800kHz	500 Ω max.		
9800≤f_nom<13560kHz	200Ω max.		
13560≤f_nom<16000kHz	100Ω max.		
16000≦f_nom<20000kHz	60Ω max.		
20000≤f_nom≤54000kHz	50Ω max.		

Table2 Level of Drive

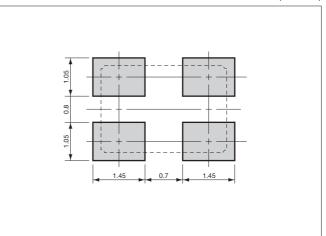
Frequency Range	Level of Drive		
8000≤f_nom≤54000kHz	10μW (200μW max.)		

Dimensions



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera:

 CX3225SA27000D0PZZ06
 CX3225SA16000D0PSTZ1
 CX3225SA25000H0GSSC1
 CX3225SA18080H0FSST1

 CX3225SA40000D0PTWCC
 CX3225SA40000D0PTWCC
 CX3225SA40000D0PTWCC
 CX3225SA40000D0PTWCC