

- ▶ Low Profile
- ▶ RoHS Compliant (Note 7 Exemption)
- ▶ Tape & Reel Packaging

# ECS-SR1-A

## SMD CERAMIC RESONATOR

The ECS-SR1-A Series SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

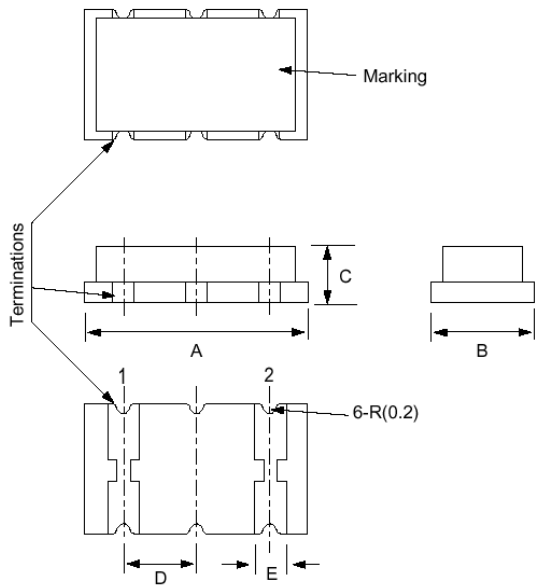


### OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PART NUMBER *	FREQUENCY RANGE (MHz)	FREQUENCY ACCURACY @ 25°C (%)	FREQUENCY STABILITY -20 ~ +80°C (%)	AGING FOR TEN YEARS (%)	RESONANT RESISTANCE (Ω) MAX.	INSULATION RESISTANCE @ 10VDC
ECS-SR1-□.□ □-A	2.00 ~ 8.00	± 0.5	± 0.3	± 0.3	40	100 M Ω Min.

Complete part number to include frequency i.e. ECS-SR1-4.00-A-TR

### PACKAGE DIMENSIONS (mm)



PIN CONNECTIONS	
#1	In/Out
#2	Out/In

Figure 1) ECS-SR-A Series - Top, Side, Bottom & Views

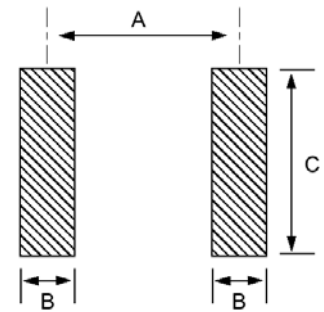
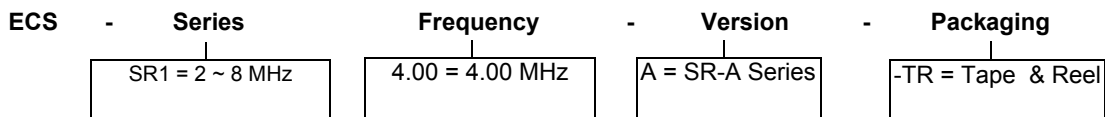


Figure 2) Land Pattern

PACKAGE TYPE	DIMENSIONS (mm)				
	A	B	C	D	E
ECS-SR1	7.5	3.3	1.8	2.5	1.5

PACKAGE TYPE	DIMENSIONS (mm)		
	A	B	C
ECS-SR1	5.0	1.7	4.0

### PART NUMBERING GUIDE: "Example" ECS-SR1-4.00-A-TR





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**C E R A M I C R E S O N A T O R / F I L T E R**

**Application Information Request**

**Attention:** All Customers

**From:** Mike Huennekens, Director of Marketing and OEM Sales

**Subject:** Ceramic Resonator Application Information Request

ECS is requesting that you complete the section below that will allow us to determine if the specific application is suitable for the ceramic resonator/filters that you have requested.

Ceramic Resonators/Filters, both surface mount and through-hole type, are a much different frequency control solution than that of a crystal based device. Not only are there "matching" issues to specific integrated circuits and processors with ceramic based piezoelectric components but for multiple reasons ceramics are not the most advantageous nor robust frequency control solution for certain applications.

In addition, ECS does not approve the use of its ceramic products in Automotive, Military, Avionics, Life Sustaining or Life Support systems or any other related medical application.

**If the customer chooses to use this product in one or more of the noted applications without the written consent of ECS, Inc., ECS, Inc. shall be held harmless, and given release of liability and indemnification from claims of any nature.**

*Please complete the following and submit this form as soon as possible.*

ECS Part Number	
Estimated Annual Usage	
Has this part already been approved for this application?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Has this part been ordered previously for this application?	Yes <input type="checkbox"/> No <input type="checkbox"/>
End Customer	
<p style="text-align: center;"><b>Application Details</b>  <u>You Must Be Specific</u> or this may be returned for more information.</p>	

I certify that the above information is true and correct to the best of my knowledge and acknowledge that ECS will be held harmless if this item is used in the restricted applications noted above.

\_\_\_\_\_  
 Company Name

\_\_\_\_\_  
 Print Your Name

\_\_\_\_\_  
 Title

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

\*\* If this item will be used by a 3<sup>rd</sup> party ECS may require a form be completed and signed by all parties.

<b>To be completed by ECS Inc., International</b>			
Approved: <input type="checkbox"/>	Disallowed: <input type="checkbox"/>	Date: _____	Approved By: _____

Please direct any further inquires to Brad Slatten at [brads@ecsxtal.com](mailto:brads@ecsxtal.com) or Carla Williams at [carlaw@ecsxtal.com](mailto:carlaw@ecsxtal.com) . We thank you for your understanding and patience in this process.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренеспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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