



- **Low Profile** 
  - RoHS Compliant (Note 7 Exemption) **Tape & Reel Packaging**
- ECS-SR1-A

## **SMD CERAMIC RESONATOR**

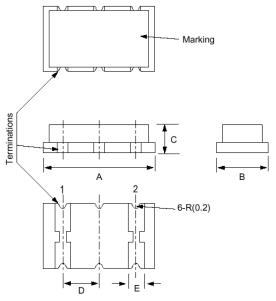
The ECS-SR1-A Series SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

#### OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PART NUMBER *	FREQUENCY	FREQUENCY	FREQUENCY	AGING FOR	RESONANT	INSULATION
	RANGE	ACCURACY	STABILITY	TEN YEARS	RESISTANCE	RESISTANCE
	(MHz)	@ 25°C (%)	-20 ~ +80°C (%)	(%)	(Ω) MAX.	@ 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 &d Views

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

Figure 2) Land Pattern					
PACKAGE TYPE	DIMENSIONS (mm)				
PACKAGE ITPE	Α	В	С		
ECS-SR1	5.0	1.7	4.0		

PACKAGE TYPE	DIMENSIONS (mm)					
PACKAGE TIPE	Α	В	С	D	Ш	
ECS-SR1	7.5	3.3	1.8	2.5	1.5	

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

**ECS** Series SR1 = 2 ~ 8 MHz

**Frequency** 4.00 = 4.00 MHz

Version A = SR-A Series

**Packaging** -TR = Tape & Reel



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#### CERAMIC RESONATOR/FILTER

#### Application Information Request

**Attention:** All Customers

From: Mike Huennekens, Director of Marketing and OEM Sales

Subject: Ceramic Resonator Application Information Request

Disallowed:

Date:

Approved:

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.

To be completed by ECS Inc., International				
Signature	e Date			
Title				
Print You	ır Name			
Company	/ Name		** If this item will be used by a a form be completed and sig	
	that the above information is true a sed in the restricted applications not		the best of my knowledge and acknowledge that ECS	will be held harmless if this
	Application Details You Must Be Specific or this may be returned for more information.			
	End Customer			
	Has this part been ordered previously for this application?	Yes 🗌	No 🗌	
	Has this part already been approved for this application?	Yes 🗌	No 🗌	
	Estimated Annual Usage			
	ECS Part Number			

Please direct any further inquires to Brad Slatten at <a href="mailto:brads@ecsxtal.com">brads@ecsxtal.com</a> or Carla Williams at <a href="mailto:carlaw@ecsxtal.com">carlaw@ecsxtal.com</a>. We thank you for your understanding and patience in this process.

Approved By: