



# **Low Profile** RoHS Compliant (Note 7 Exemption)

Tape & Reel Packaging

# ECS-SR1-A

# **SMD CERAMIC RESONATOR**

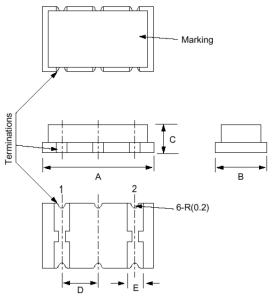
The ECS-SR1-A Series SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

#### **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)



#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	d Pattern				
PACKAGE TYPE	DIMENSIONS (mm)				
PACKAGE ITPE	А	В	С		
ECC CD1	<b>5</b> 0	17	4.0		

PACKAGE TYPE	DIMENSIONS (mm)					
	А	В	С	D	Е	
ECS-SR1	7.5	3.3	1.8	2.5	1.5	

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

**ECS** Series Frequency Version **Packaging** 4.00 = 4.00 MHz SR1 = 2 ~ 8 MHz A = SR-A Series -TR = Tape & Reel

913-782-7787 1-800-237-1041 Fax: 913-782-6991



May 16, 2007

### CERAMIC RESONATOR/FILTER

## Application Information Request

**Attention:** All Customers

ECS Part Number

Approved:

Disallowed:

Date:

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.

	Estimated Annual Usage				
	Has this part already been approved for this application?	Yes 🗌	No 🗌		
	Has this part been ordered previously for this application?	Yes 🗌	No 🗌		
l	End Customer				
	Application Details You Must Be Specific or this may be returned for more information.				
	at the above information is true and in the restricted applications not		o the best of my knowledge and acknowledge that ECS will be	e held harmless if this	
			** If this item will be used by a 3 <sup>rd</sup> part	ty ECS may require	
ompany Name				e completed and signed by all parties.	
rint Your	Name				
itle					
	D (				
ignature	Date				
To be completed by ECS Inc., International					

Approved By: