



- Low Profile SMD Package
  - **RoHS Compliant (Note 7 Exemption)**
  - **Built-in load capacitor**
  - Tape & Reel Packaging

# ECS-SR1-B

# SMD CERAMIC RESONATOR

The ECS-SR1-B Series SMD ceramic resonator includes built in capacitors for reduced component count. The 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	ESR	BUILT-IN	INSULATION
	RANGE	ACCURACY	STABILITY	TEN YEARS	(Ω)	CAPACITANCE	RESISTANCE
	(MHz)	@ 25°C (%)	-20 ~ +80°C (%)	(%)	MAX.	(C1 & C2)	@ 10VDC
ECS-SR1-□.□ □-B	2.00 ~ 8.00	± 0.5	± 0.3	± 0.3	40	30 pF	100 M Ω Min.

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

## PACKAGE DIMENSIONS (mm)

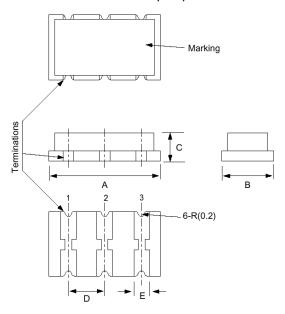


Figure 1) ECS-SR-B Series - Top, Side, Bottom &d Views

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

Figure 2) Land Pattern

PACKAGE TYPE	DIMENSIONS (mm)					
FACRAGE TIFE	Α	В	С	D	Ш	
ECS-SR1	7.5	3.3	2.2	2.5	1.5	

PACKAGE TYPE	DIMENSIONS (mm)					
FACRAGE TIFE	Α	В	С	С		
ECS-SR1	2.5	1.5	4.0	1.7		

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

ECS -Series Frequency SR1 = 2 ~ 8 MHz 4.00 = 4.00 MHz

Version B = SR-B 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.

Signature	e Date			
Signature	e Date			
THE				
Title				
Print You	ur Name	<del></del>		
Company	y Name		used by a 3 <sup>rd</sup> party ECS may require sted and signed by all parties.	
	that the above information is true as			
	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 No		
	Estimated Annual Usage			

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: