



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

ECS-SR-B

SMD CERAMIC RESONATOR

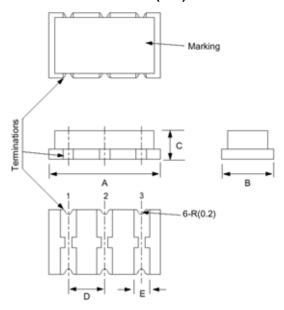
The ECS-SR-B Series SMD ceramic resonator includes built in capacitors for reduced component count. The SMD Ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PART NUMBER *	FREQUENCY RANGE (MHz)	FREQUENCY ACCURACY @ 25°C (%)	FREQUENCY STABILITY -20 ~ +80°C (%)	AGING FOR TEN YEARS (%)	ESR (Ω) MAX.	BUILT-IN CAPACITANCE (C1 & C2)	INSULATION RESISTANCE @ 10VDC
ECS-SR1-□.□ □-B	2.00 ~ 8.00	± 0.5	± 0.3	± 0.3	40	30 pF	100 M Ω Min.
ECS-SR2-□.□ □-B	8.10 ~ 13.00	± 0.5	± 0.3	± 0.3	40	30 pF	100 M Ω Min.
ECS-SR3-□.□ □-B	13.10 ~ 20.00	± 0.5	± 0.3	± 0.3	30	30 pF	100 M Ω Min.
ECS-SR4-□.□ □-B	20.10 ~ 30.00	± 0.5	± 0.3	± 0.3	55	30 pF	100 M Ω Min.

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

PACKAGE DIMENSIONS (mm)



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

Figure 2) Land Pattern

Figure 1) ECS-SR-B Series - Top, Side, Bottom &d Vie	WS
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PACKAGE TYPE	DIMENSIONS (mm)					
PACKAGE TIFE	Α	В	С	D	Ш	
ECS-SR1	7.5	3.3	2.2	2.5	1.5	
ECS-SR2	8.3	3.5	1.8	2.5	1.0	
ECS-SR3	6.0	3.5	1.8	1.9	1.2	
ECS-SR4	6.0	5.0	1.8	1.9	1.2	

PACKAGE TYPE	DIMENSIONS (mm)					
FACRAGE TIFE	Α	В	С	С		
ECS-SR1	2.5	1.5	4.0	1.7		
ECS-SR2	2.5	1.2	4.7	1.2		
ECS-SR3	1.9	1.2	4.2	1.2		
ECS-SR4	1.9	1.2	5.5	1.2		

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

SR1 = 2 ~ 8 MHz SR2 = 8.1 ~ 13 MHz SR3 = 13.1 ~ 20 MHz

SR4 = 20.1 ~ 30 MHz

4.00 = 4.00 MHz

Frequency

- 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.

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 3 rd party ECS may require a form be completed and signed by all parties.		
	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 brads@ecsxtal.com or Carla Williams at carlaw@ecsxtal.com. We thank you for your understanding and patience in this process.

Approved By: