CERAMIC RESONATORS 375kHz to 1,250kHz





The CSB Series of ceramic resonators is designed to provide the design engineer with a rugged, relatively low frequency device in the frequency range of 375kHz to 1,250kHz. Initial frequency tolerance is $\pm 0.5\%$ which

compares very favorably to the nominal $\pm 2\%$ –3% requirements of one chip microprocessors. The CSB Series utilizes the area vibration mode of the piezoelectric ceramic element.

PART NUMBERING SYSTEM



CSB SERIES: 375kHz - 1250kHz



WASHABLE

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Frequency	375 – 429kHz	430 – 519kHz	520 – 589kHz	590 – 655kHz	656 – 699kHz	700 – 1250kHz
Series	CSBDDDJ	CSB□□□J	CSB	CSB□□□JR	CSBDDDJ	CSB□□□J
Washability	Washable ¹	Washable ¹	Washable ¹	Washable ¹	Washable ¹	Washable ¹
Dimensions	$\begin{array}{c c} & 8.0 \\ \hline \\ $	$\begin{array}{c c} & & & & 3.3 \\ \hline & & & & & & \\ \hline & & & & \\ \hline & & & &$	$\begin{array}{c c} & & & & & & \\ \hline & & & & \\ \hline \end{array}$	$\begin{array}{c c} & & & & & & & & & & & & \\ \hline & & & & & &$	$\begin{array}{c c} 7.5 \\ \hline CSB \\ \hline 0.4 \\ \hline 0.5 \\ \hline 0.4 \\ \hline 0.5 \\ \hline 0.4 \\ \hline 0.5 \\ \hline 0.4 \\$	5.0 CSB 6.0 3.5 2.5

¹The resonators are washable. However, temperature, time and other processing conditions should be checked to ensure that suitable electrical characteristics are maintained.

SPECIFICATIONS

Frequency Range (kHz)	375 to 1,250	375 to 699	
Frequency Tolerance	±0.5%	±2.0kHz	
Temperature Stability (-20°C to +80°C)	±0.3%	±0.3%	
Aging (room temp., 10 years)	±0.3%	±0.3%	
Standard Test Circuit	$R_{r} = 1M\Omega$ $R_{r} = 1M\Omega$ $R_{r} = C_{L1}$ $R_{r} = C_{L2}$ $R_{r} = R_{r}$	• V _{DD} Output • CD4069UBE (RCA) Ceramic Resonator , C _{L2} : Loading Capacitance : Damping Resistance	

DIMENSIONS: mm

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