CERAMIC RESONATOR



kHz Band SMD Ceramic Resonator CSBF Series

Can be reflow soldered and mounted by automatic placers.

MURATA's original package technologies have enabled the development of the kHz band CERALOCK[®]. The series is perfect in miniature remote control units and AV modules.

FEATURES

- 1. The series withstands reflow soldering.
- 2. The series is mountable by automatic placers.
- 3. No adjustment is necessary for oscillation circuits.

■APPLICATIONS

- Clock oscillators for microprocessors.
- OA equipment
- AV modules

■SPECIFICATIONS

Туре	CSBF Series	
Item	CSBF□J	CSBF□J
Frequency Range	430—519kHz	700—1250kHz
Oscillation Frequency Initial Tolerance	±0.5%	±0.5%
Oscillation Frequency Temperature Stability*1	±0.3%	±0.3%
Aging*2	±0.3%	±0.3%
Oscillation Frequency Measuring Circuit	V_{DD} V	

*1 At -20 to +80℃.

*2 For 10 years at room temperature.

*3 This resistance value applies to the 700-1250 kHz range.

DIMENSIONS/STANDARD LAND PATTERN (in mm)

Frequency	430—519kHz	700—1250kHz
Туре	CSBF□J	CSBF□J*1
Dimensions	7.5±0.3 CSB 455J CSB 5.0±0.2 3.3±0.3 0 0 0 0 0 0 0 0 0 0 0 0 0	5.0±0.3 1000J C * 0.8±0.2 0.8±0.2 0.15±0.05 0.10±0.03 0.10±0.03
Standard Land Pattern	90 07 07 07 07 07 07 07 07 07 07 07 07 07	

*1 Available in several standard frequencies.

■TECHNICAL DATA (Temperature characteristics)



■DIMENSIONS OF PLASTIC TAPE





■APPLICATIONS

1. Soldering Conditions

• Soldering Temperature and Time

Solder within the temperature and time combinations illustrated by the slanted lines in the following graph. If soldering is repeated, please note that the allowed time is the accumulated time.



• Standard Soldering Conditions



Soldering Method

Soldering conditions : Soldering iron temperature 270°C Soldering time less than 3 seconds

2. Cleaning Conditions

Please contact us concerning cleaning method before use. For protection of ozone layer, we also investigate the non-ODC cleaning process for our devices. For more details, please contact us before use.