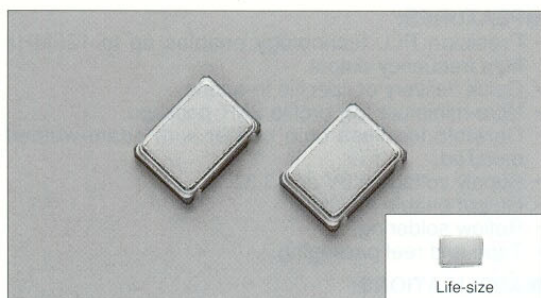


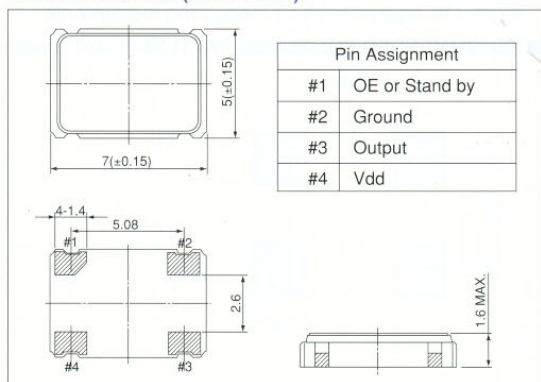
# CRYSTAL CLOCK OSCILLATOR (CERAMIC SURFACE MOUNT TYPE)

CITIZEN

## CSX-750F SERIES (2,000pcs/reel)



### ■ DIMENSIONS: (UNIT=mm)



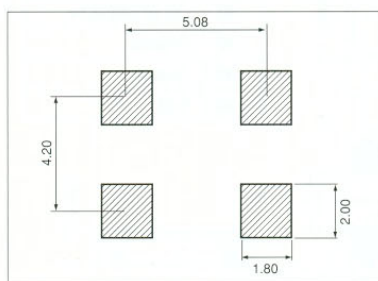
### ■ FEATURES:

- Ultra-miniature low profile SMT package.
- Ceramic leadless chip carrier with seam-welded metal lid.
- Low power CMOS IC.
- Supply voltage 5.0V and 3.3V.
- Output enable function.
- Reflow soldering.
- Tape and reel packaging

### ■ APPLICATIONS:

- Can be used for a wide range of applications including use in communication equipment, AV equipment, OA equipment and measuring instruments.

### ■ RECOMMENDED SOLDERING PATTERN: (UNIT=mm)



### ■ STANDARD SPECIFICATIONS

Item	Model	CSX-750FC(*)	CSX-750FB(*)	CSX-750FJ(*)	
Frequency range		1.000MHz~ 39.999MHz	40.000MHz~ 66.667MHz	1.000MHz~ 39.999MHz	40.000MHz~ 66.667MHz
Frequency stability	(*)	C: ±100ppm B: ±50ppm (−20°C~+70°C) F: ±100ppm (−40°C~+85°C)			
Operating temperature range		−20°C~+70°C (−40°C~+85°C)			
Storage temperature range		−55°C~125°C			
Supply voltage		V <sub>DD</sub> : 5.0V±0.5V		V <sub>DD</sub> : 3.3V±0.3V	
Supply current		25mA MAX.	45mA MAX.	15mA MAX.	25mA MAX.
Duty	TTL level (1.4V) CMOS level (V <sub>DD</sub> /2)	40%~60% 45%~55%		— 45%~55%	
Output voltage	V <sub>OH</sub> V <sub>OL</sub>	0.9V <sub>DD</sub> MIN. 0.4V MAX.		0.9V <sub>DD</sub> MIN 0.1V <sub>DD</sub> MAX	
Output load	TTL CMOS	10TTL MAX. 50pF MAX.		— 30pF MAX.	
Rise & Fall time (tr, tf)		8nsec MAX.	6nsec MAX.	8nsec MAX.	6nsec MAX.
Start up time		4msec MAX.	10msec MAX.	4msec MAX.	10msec MAX.
Input (OE) voltage		V <sub>IH</sub> : 2.0V MIN. V <sub>IL</sub> : 0.8V MAX.		V <sub>IH</sub> : 2.0V MIN. V <sub>IL</sub> : 0.4V MAX.	
Disable current	FC FB	10mA MAX.	20mA MAX.	5mA MAX.	—
Stand-by current	FJ	—	—	—	10µA MAX.
Shock resistance		±20ppm MAX. Drop test of 3 times on a hard board from 75cm height or shock test of 3000G x 0.3ms x 1/2 sin wave x 3 directions			

NOTE: Please contact us for availability of TTL tight-duty and operating temperature range (−40°C~+85°C).

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