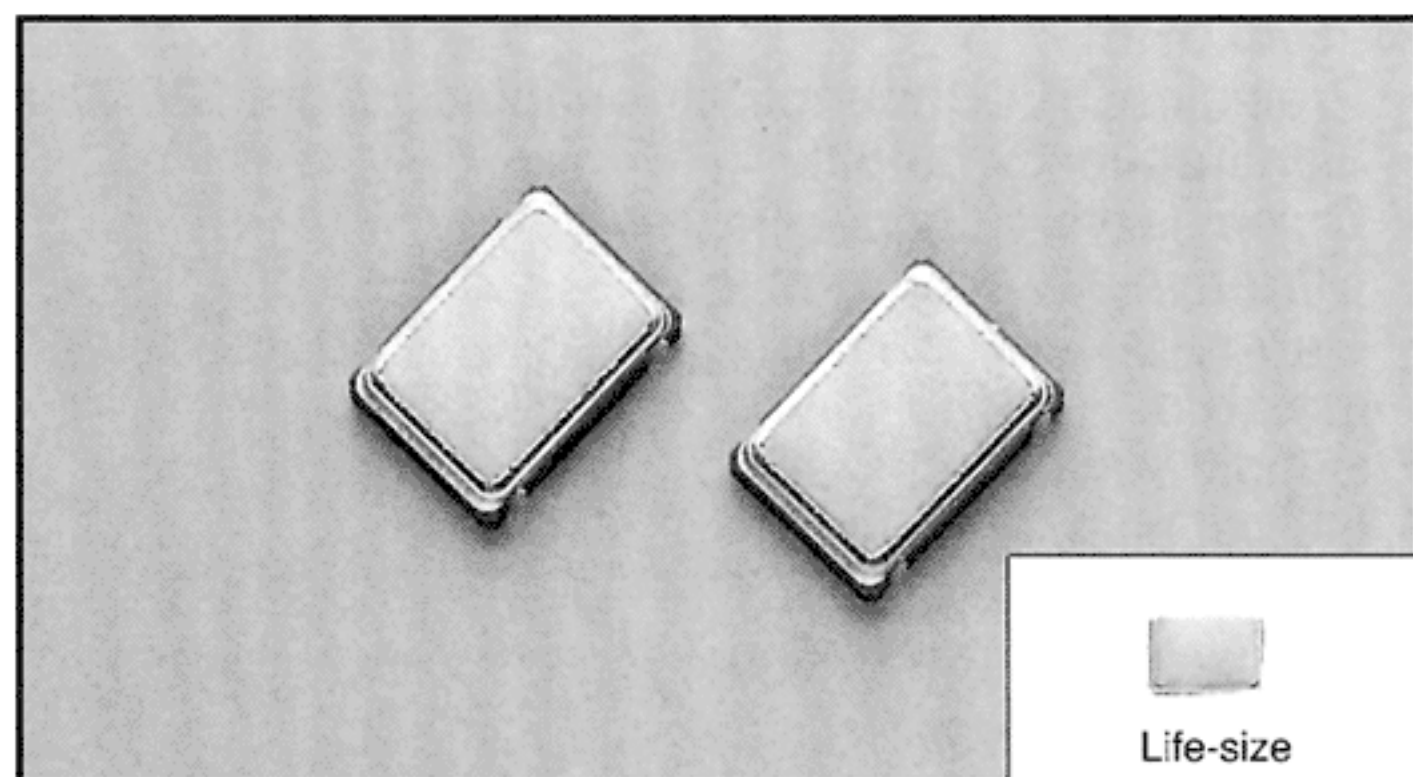


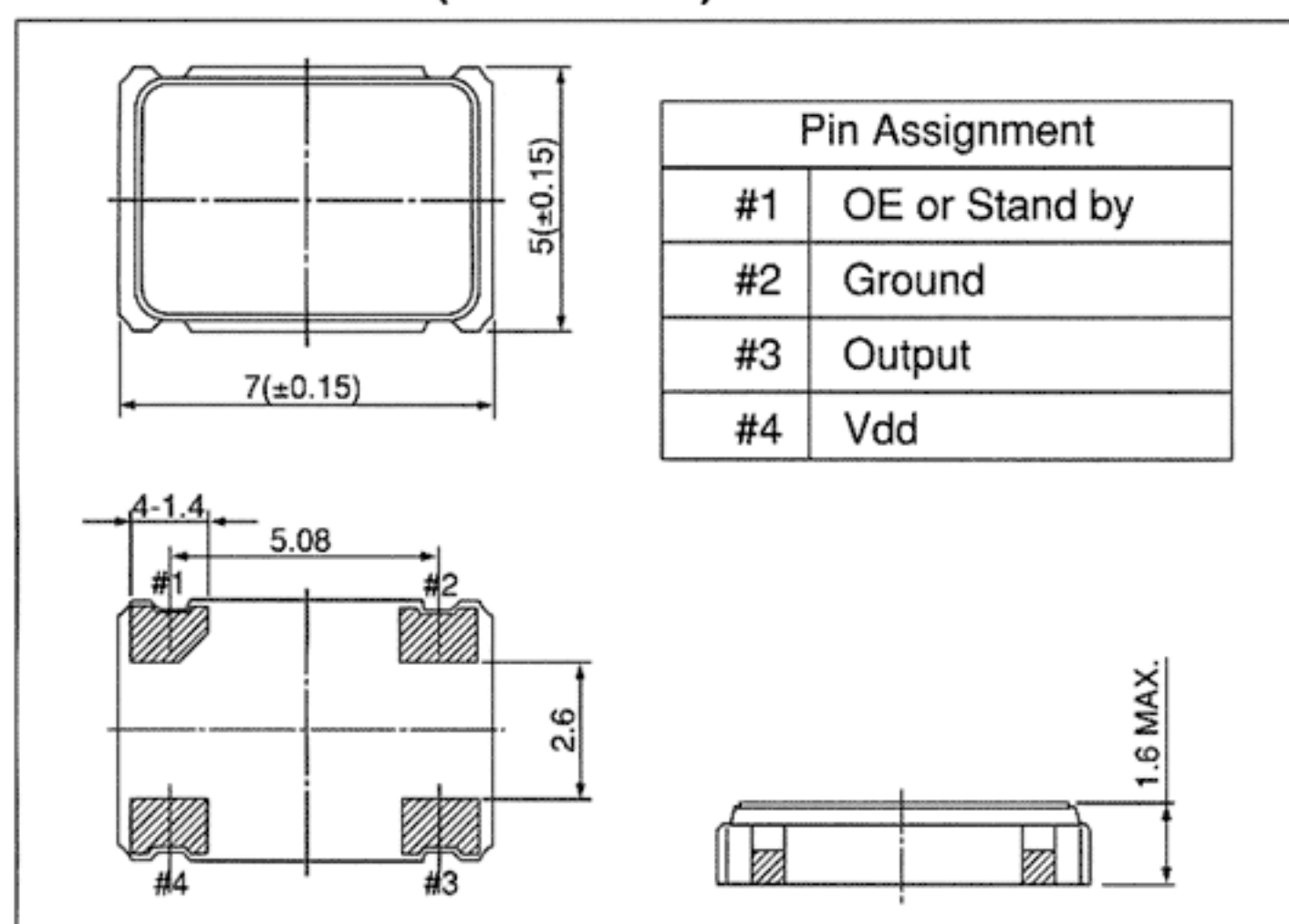
CRYSTAL CLOCK OSCILLATOR (CERAMIC SURFACE MOUNT TYPE)

CITIZEN[®]

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



■ DIMENSIONS: (UNIT=mm)



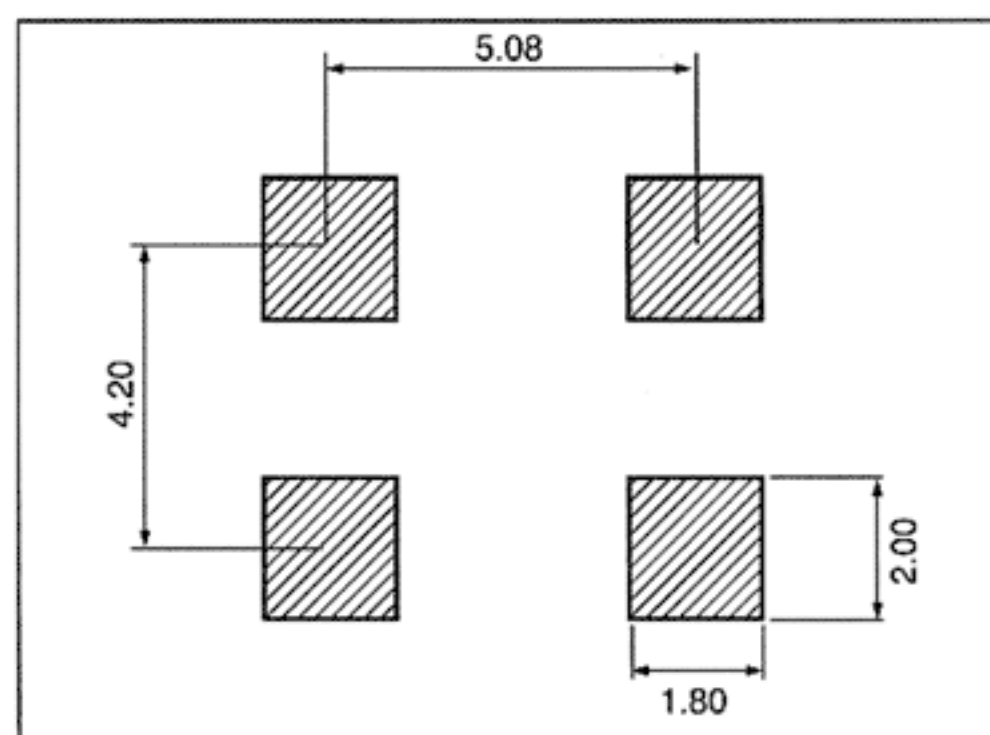
■ FEATURES:

- 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 _{DD} : 5.0V±0.5V		V _{DD} : 3.3V±0.3V	
Supply current		25mA MAX.	45mA MAX.	15mA MAX.	25mA MAX.
Duty	TTL level (1.4V) CMOS level (V _{DD} /2)	40%~60% 45%~55%		— 45%~55%	
Output voltage	V _{OH} V _{OL}	0.9V _{DD} MIN. 0.4V MAX.		0.9V _{DD} MIN. 0.1V _{DD} 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 _{IH} : 2.0V MIN. V _{IL} : 0.8V MAX.		V _{IH} : 2.0V MIN. V _{IL} : 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).