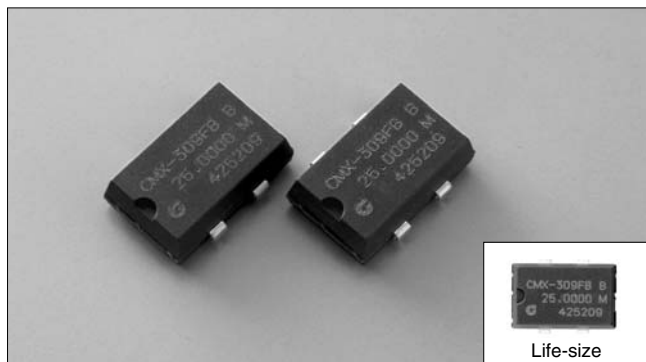
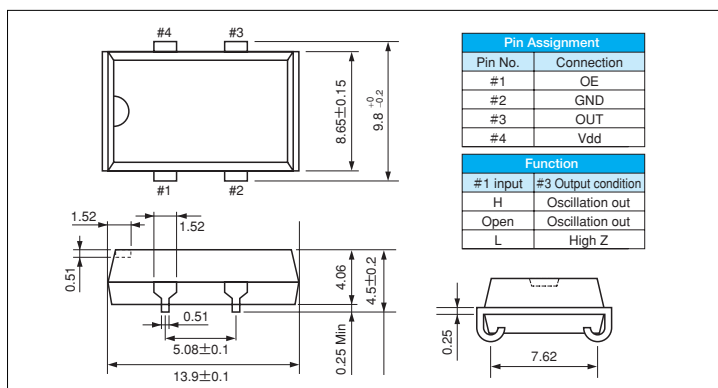




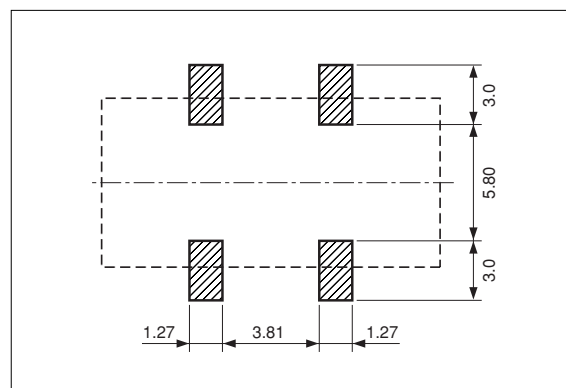
FEATURES

- Embedded with heat resistant cylinder type crystal bring highly stable characteristics.
- Automatic mounting and reflowable Type.
- Low power consumption with output enable function (OE).
- Suitable for various applications such as communication devices, AV devices, automotive devices and measuring instruments.

DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

* Model is determined by the selection for the frequency, the supply voltage, the duty and the frequency stability.

Model		CMX-309			
Item		FL(*) / FS(*)	HW(*) / HS(*)	FB(*) / FA(*)	HB(*) / HA(*)
Frequency Range		1.000MHz~30.000MHz	30.001MHz~70.000MHz	1.000MHz~30.000MHz	30.001MHz~70.000MHz
Supply Voltage		Vdd : 5.0V±0.5V		Vdd : 3.3V±0.3V	
Duty	TTL level (1.4V)	FL:45~55%,FS:40~60%	HW:45~55%,HS:40~60%	—	
	CMOS level (1/2 Vdd)	FL:40~60%,FS:45~55%	HW:40~60%,HS:45~55%	FB:40~60%,FA:45~55%	HB:40~60%,HA:45~55%
Frequency Stability	(*)	C : ±100ppm (−10℃~+70℃), B : ±50ppm (−10℃~+70℃)			
Operating Temperature Range		−40℃~+85℃			
Storage Temperature Range		−55℃~+125℃			
Current consumption		23mA Max.	35mA Max.	9mA Max.	20mA Max.
Output Voltage	V _{OH}	0.9Vdd Min.			
	V _{OL}	0.4V Max.		0.1Vdd Max.	
Output Load	TTL	10 TTL Max.		—	
	CMOS	50pF Max.		30pF Max.	
Rise and Fall Time	TTL	8 nsec Max.	5 nsec Max.	—	
	CMOS	8 nsec Max.	7 nsec Max.	6 nsec Max.	
Start-up time		4 msec Max.	10 msec Max.	4 msec Max.	10 msec Max.
Input Voltage		V _{IH} : 2.0V Min, V _{IL} : 0.8V Max			V _{IH} : 2.4V Min, V _{IL} : 0.6V Max
Disable current		12 mA Max.	28 mA Max.	5 mA Max.	15 mA Max.
Aging (first year)		±5ppm / year Max.			

Mouser Electronics

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Citizen:

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[CMX309FLC-16.128M-UB](#) [CMX309FLC-16.000M-UT](#) [CMX309HWC-40.000MTR](#) [CMX309HBC-33.3333M-UT](#)
[CMX309FLC-14.7456M-UT](#) [CMX309HBC-33.3333MTR](#) [CMX309FLC-14.7456MTR](#) [CMX309FBC-4.9152M-UT](#)
[CMX309FLC-14.31818MTR](#) [CMX309HWC-50.000MTR](#) [CMX309FBC-12.000M-UT](#) [CMX309HWC-33.330MB](#)
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[CMX309FBC-14.31818MTR](#) [CMX309HBC-50.000MTR](#) [CMX309FBC-11.0592M-UT](#) [CMX309FLC-15.6672M-UB](#)
[CMX309FBC-22.1184M-UT](#) [CMX309FBC-14.7456MTR](#) [CMX309HBC-55.000MTR](#) [CMX309FLC-2.048M-UT](#)
[CMX309FLC-1.000MTR](#) [CMX309HWC-32.768M-UT](#) [CMX309FBC-1.000M-UT](#) [CMX309HWC-53.125MTR](#)
[CMX309HBC-32.768M-UT](#) [CMX309FLC-24.576M-UT](#) [CMX309FLC-1.000M-UT](#) [CMX309FLC-12.500M-UB](#)
[CMX309FBC-8.192M-UT](#) [CMX309FBC-12.500M-UB](#) [CMX309FBC-24.000MTR](#) [CMX309FLC-7.3728M-UB](#)
[CMX309FLC-34.000MTR](#) [CMX309HWC-55.000M-UT](#) [CMX309FLC-7.3728MTR](#) [CMX309FLC-8.192M-UT](#)
[CMX309FBC-4.096M-UT](#) [CMX309FLC-22.1184M-UT](#) [CMX309FLC-4.096M-UT](#) [CMX309HBC-40.000M-UT](#)
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[CMX309FLC-3.6864MTR](#) [CMX309FLC-18.000MTR](#) [CMX309HWC-33.3333M-UT](#)