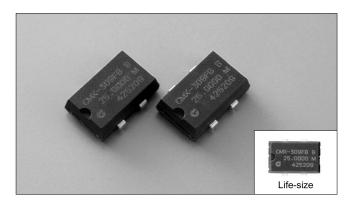


CLOCK OSCILLATORS (SMD · Plastic Package)

RoHS Compliant Optional

CMX309 SERIES

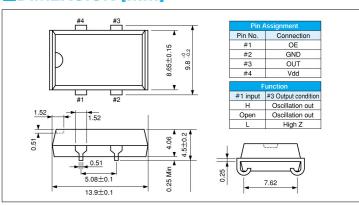
1000pcs/reel



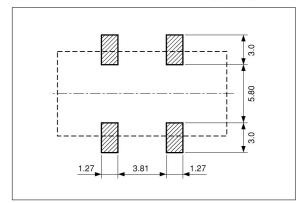
FEATURES

- 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		CMX309			
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	TL level (1.4V)	FL:45~55%,FS:40~60%	HW:45~55%,HS:40~60%	_	_
	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 (*)		$C: \pm 100 ppm (-10 °C \sim +70 °C), B: \pm 50 ppm (-10 °C \sim +70 °C), F: \pm 100 ppm (-40 °C \sim +85 °C)$			
Operating Temperature Range		-40°C~+85°C			
Storage Temperature Range		−55°C~+125°C			
Current consumption		23mA Max.	35mA Max.	9mA Max.	20mA Max.
Output Voltage		0.9Vdd Min.		0.9Vdd Min.	
- Carpar Fortage	Vol	0.4V Max.		0.1Vdd Max.	
Output Load	TTL	10 TTL Max.		_	
- Carput Loud	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 _I ∟ : 0.8V M		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.			