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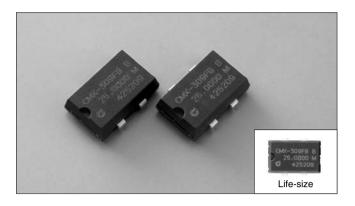
CLOCK OSCILLATORS (SMD · Plastic Package)



RoHS Compliant Optional

CMX-309 SERIES

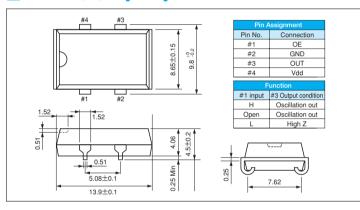
1000pcs/reel



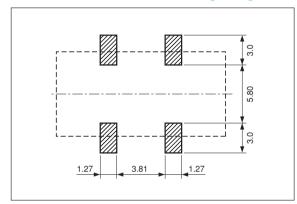
FEATURES

- 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]



ISTANDARD 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:±1	00ppm(−10°C~+70°C)), B: ±50ppm(−10°C~+70°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	Vон	0.9Vdd Min.				
Output Voltage	Vol	0.4V Max.		0.1Vdd Max.		
Output Load		10 TTL Max.		_		
Output Load	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⊪ : 2.0V Min , V⊩ : 0.8V N		1ax V⊪: 2.4V Min , V⊩: 0.6V Max		
Disable current		12 mA Max.	28 mA Max.	5 mA Max.	15 mA Max.	
Aging (first year)		±5ppm / year Max.				