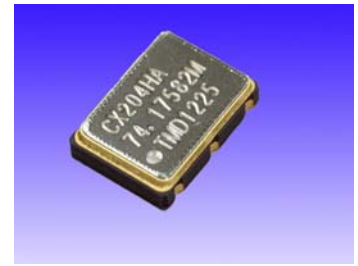


- 7.0x5.0mm SMD VCXO CMOS OUTPUT -

Type : CX204-18 series

RoHS

- Frequency : 10MHz to 125MHz
- CMOS Output, E/D Function
- **Narrow pulling range (+/-50 to 60ppm typ) for improvement of jitter in PLL circuites**
- AT cut fundamental crystal and seam weld



Output Level	CMOS
Supply Voltage	+3.3Vdd +/-5%
Size	7.0 x 5.0 x 1.8mm

- Electrical Specifications -

Item	Condition	MIN	TYP	MAX	Unit
Frequency Range		10	-	125	MHz
Supply voltage	+3.3V +/- 5%	+3.135	-	+3.465	V
Frequency Stability (Including Ope.Temp. Aging of 1st year)	Option :G	-	-	+/-20	PPM
	Option :A	-	-	+/-25	PPM
	Option :H	-	-	+/-30	PPM
Operating Temperature	Option : S	0	-	+70	deg.c
	Option : A	-20	-	+70	deg.c
	Option : B	-40	-	+85	deg.c
	Option : C	-10	-	+70	deg.c
Pulling Range	VC = +1.65V +/-1.5V	+/-40	+/-50 to 60	+/-65	PPM
Controle Voltage	+1.65V +/-1.5V	+0.15	-	+3.15	V
VC Characteristics:	-	Positive			-
Input Impedance	Vcon to Gnd	5M	-	-	Ohm
Moduration bandwidth	3dB max / Ref@1KHz	10k	-	-	Hz
Storage Temperature	Parts only	-50	-	+125	deg.c
Output Level	VOH	Vdd-0.4	-	-	V
	VOL	-	-	0.4	V
Rise & Fall Time	10MHz to 59.9MHz / CL=15pF	-	-	8.0	ns
	from 60MHz / CL=15pF	-	-	5.0	ns
Duty	@ 1/2 Vdd	45	-	55	%
Current	CL=15pF	-	-	15	mA
Output Load	CMOS	15			pF
RMS Jitter	12kHz to 20MHz Offset @74.175MHz	-	0.13	-	ps
Start-up Time		-	-	10	ms
E/D Function	#2pin = Hi or Open : Enable / Low : Disable				

* Regarding to the not developed frequency, it will take long time for 1st delivery.

● Dimension (Unit: in mm)

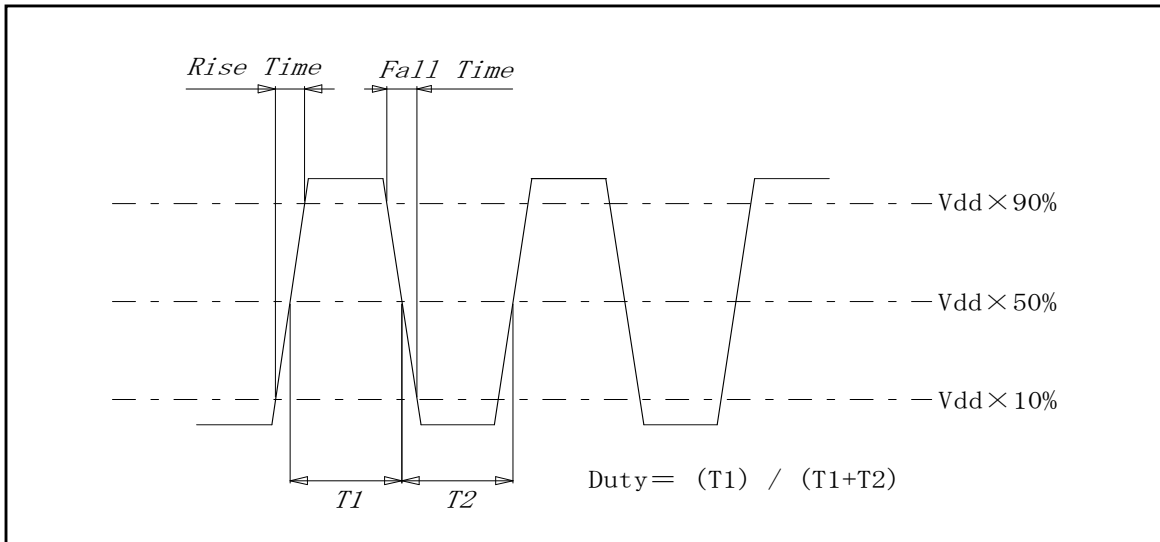
<Recommended Land Pattern>

<Pin Assign>

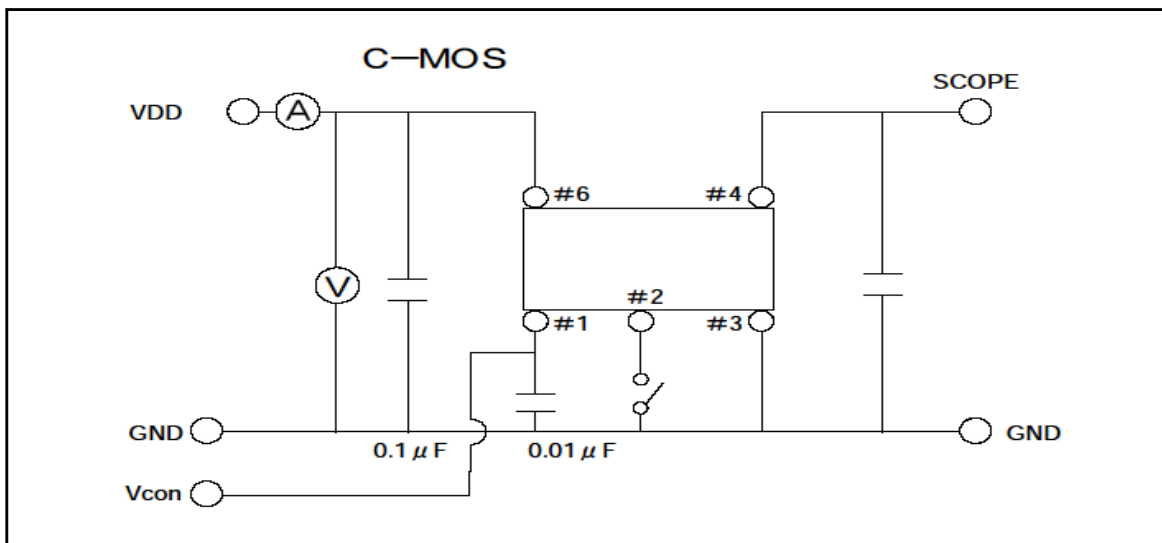
#1	VC
#2	E/D
#3	GND
#4	OUTPUT
#5	NC
#6	VDD

* Please insert 0.01microF bypass capacitor between #6 and #3 pins.

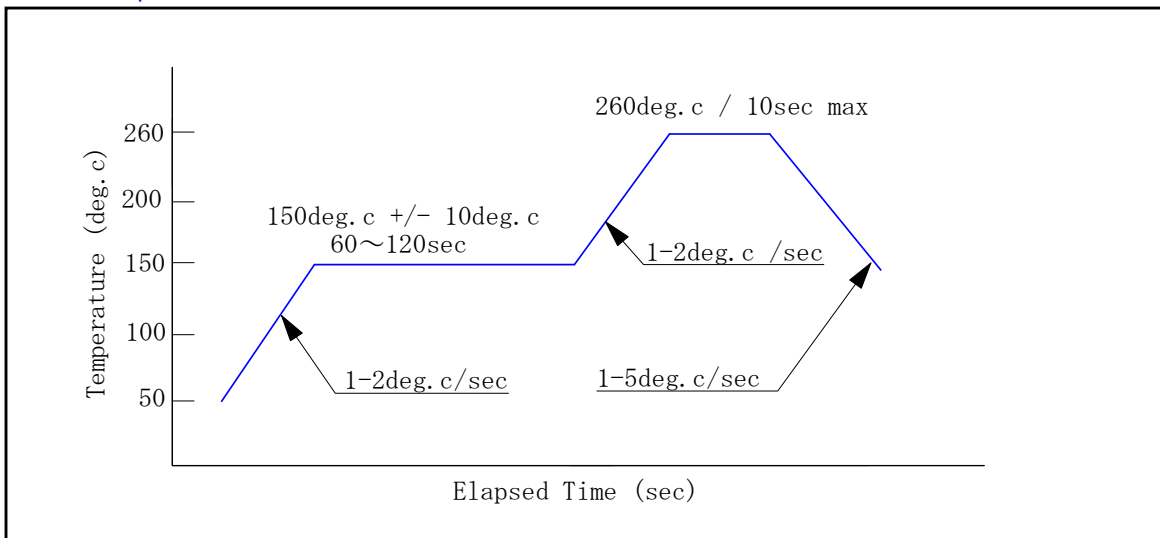
● Wave Form



● Test Circuit



● Reflow profile

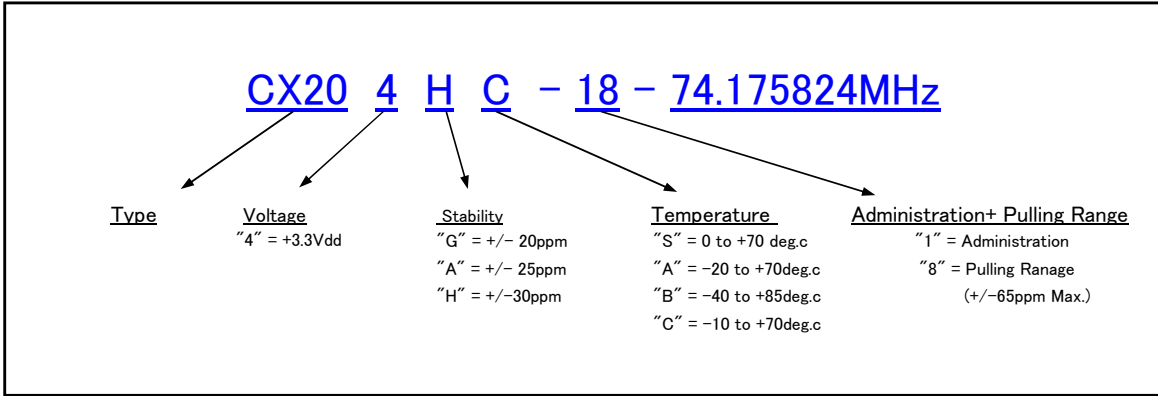


* The reflow process can be allowed until 2 times.

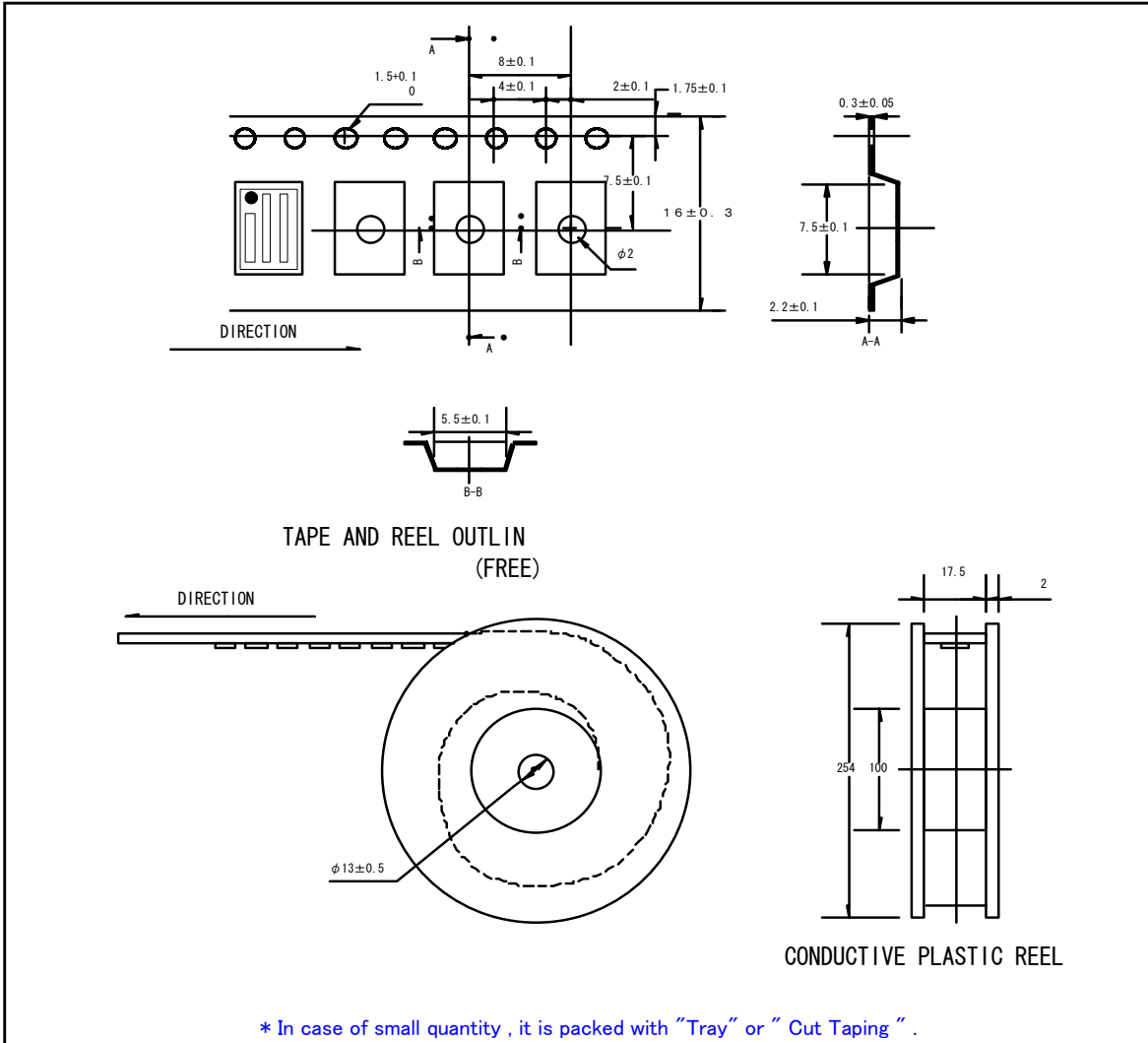
* In case of manual soldering ; using soldering iron at +360deg.c +/-20deg.c , within 3sec (per each 1pad)

* This product includes CMOS device, then please handle it with protected process against ESD.

● How to define Model Number



● Taping & Reel dimension



2013.05.02 Rev.B

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Solution & Development

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