PETERMANN TECHNIK
Time & Frequency Components

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FEATURES

- HIGH RELIABILITY FOR LOW COST
- FREQUENCY STABILITY TO +-15 PPM AVAILABLE
- AVAILABLE IN 1.8 / 2.5 AND 3.3 VOLT
- NEW STANDARD FOR SMALL HIGH PERFORMANCE LOW COST OSCILLATORS
- EXTENDED TEMPERATURE RANGE TO -40/+85°C AVAILABLE

SMD-OSCILLATOR SERIES			SXO-03025	
PACKAGE			Ceramic package 3.2 x 2.5 x 1.0 mm	
FREQUENCY RANGE			1.0 ~ 125.0 MHz	
FREQUENCY STABILITY			+-15 ~ +-100 ppm	
OPERATING TEMPERATURE RANGE			-10/+60°C ~ -40/+85°C	
STORAGE TEMPERATURE RANGE			-55/+125°C	
INPUT	VOLTAGE	1.8 VDC +-5%	+2.5 VDC +-5%	+3.3 VDC +-5%
	CURRENT	1.0 ~ 4.0 MHz = 10 mA max.	1.0 ~ 4.0 MHz = 10 mA max.	1.0 ~ 4.0 MHz = 10 mA max.
		4.0 ~ 32.0 MHz = 30 mA max.	4.0 ~ 32.0 MHz = 30 mA max.	4.0 ~ 32.0 MHz = 20 mA max.
		32.0 ~ 80.0 MHz = 45 mA max.	32.0 ~ 80.0 MHz = 45 mA max.	32.0 ~ 80.0 MHz = 30 mA max.
		80.0 ~ 125.0 MHz = 80 mA max.	80.0 ~ 125.0 MHz = 80 mA max.	80.0 ~ 125.0 MHz = 40 mA max.
OUTPUT	SYMMETRY	STANDARD	40/60%	
		OPTION	45/55%	
	RISE AND FALL TIME		5 ns typical / 7 ns max.	
	"0" LEVEL	CMOS	10% VDD max.	
	"1" LEVEL		90% VDD min.	
	LOAD	CMOS	15 pF	
PIN 1		STANDARD	WITHOUT ENABLE/DISABLE FUNCTION	
		OPTION	WITH ENABLE/DISABLE FUNCTION	
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION				

PART NUMBERING SYSTEM

EXAMPLE	SXO18-03025-S-E-50-W-27.000MHz-T

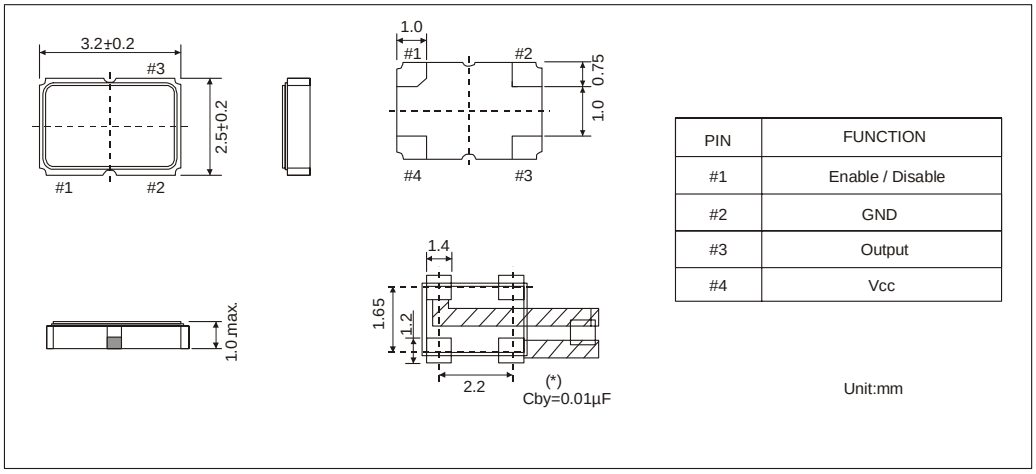
SERIES	SXO18-03025 FOR 1.8 VOLT VERSION
	SXO25-03025 FOR 2.5 VOLT VERSION
	SXO3-03025 FOR 3.3 VOLT VERSION
SYMMETRY	BLANK FOR 40/60%
	S FOR 45/55%
PIN 1 ENABLE/DISABLE	BLANK FOR NO E/D
	E FOR E/D
FREQUENCY STABILITY	BLANK FOR 100 ppm
	ANY 15 ~ 50 ppm
TEMPERATURE RANGE	BLANK FOR 0/+70°C
	N = -10/+60°C
	M = -20/+70°C
	W = -40/+85°C
FREQUENCY	FREQUENCY IN MHz
TAPE AND REEL	-T

REV.02 / April 2009

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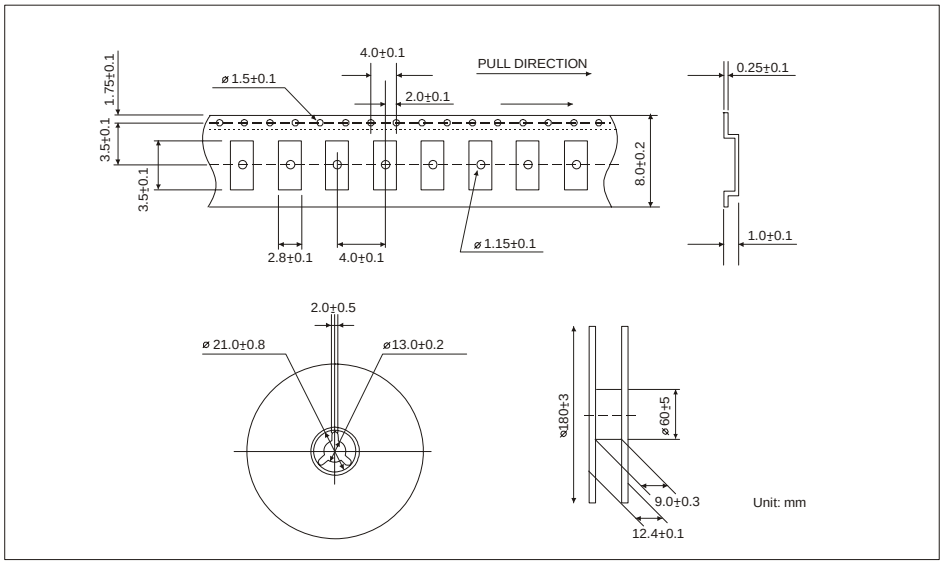
OUTLINE DRAWING OF SXO-03025



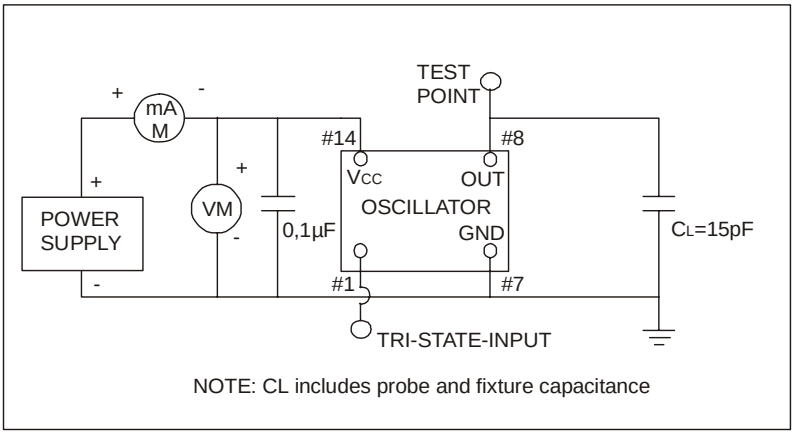
PIN	FUNCTION
#1	Enable / Disable
#2	GND
#3	Output
#4	Vcc

Unit:mm

TAPE AND REEL DIMENSIONS



TEST CIRCUIT CMOS

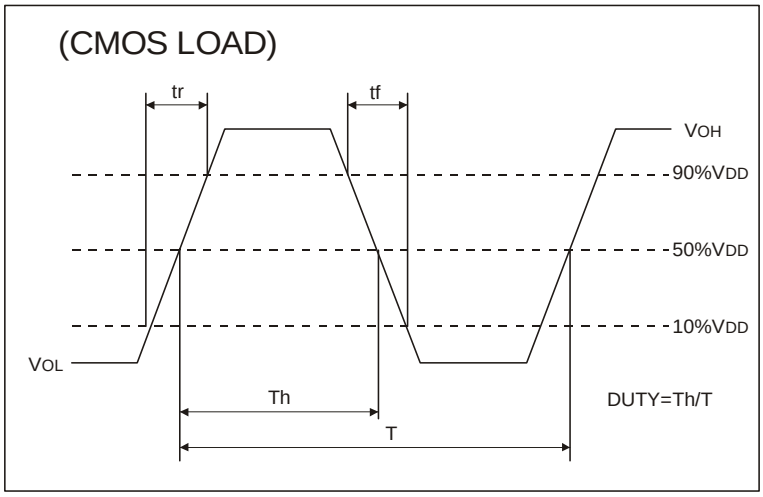


NOTE: CL includes probe and fixture capacitance

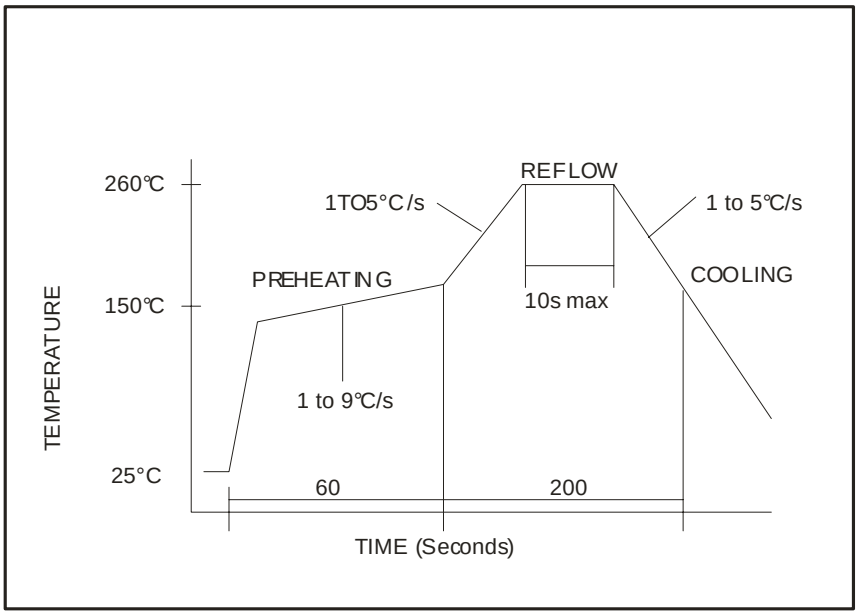
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OUTPUT WAVE FORM CMOS



REFLOW SOLDER PROFILE



Oscillators can be soldered according to the norm JEDEC J-STD-020C.