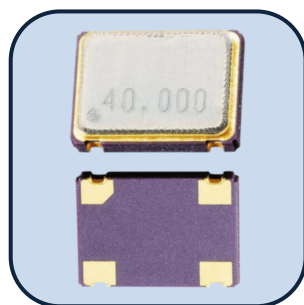




SMD SPXO 2.5x2.0mm 3.0 VDC LP MHz

FEATURES

- ☐ Low power version / Stand-by current 10 μ A max.
- ☐ Frequency stability to ± 20 ppm available
- ☐ Available in 1.8, 2.5, 2.8, 3.0 and 3.3 VDC
- ☐ New standard for small high performance low cost crystal oscillators
- ☐ Low Jitter for excellent performance

Pb-free
RoHS-2 2011/65/EU
compliant

GENERAL DATA

SMD-OSCILLATOR SERIES			SXO30LP-02502		
PACKAGE			Ceramic package 2.5 x 2.0 x 1.0 mm ³		
FREQUENCY			0.2 ~ 167.0 MHz		
FREQUENCY STABILITY			-10/+60°C ~ -10/+70°C	±20 ~ ±100 ppm	
			-20/+70°C	±25 ~ ±100 ppm	
			-40/+85°C	±50 ~ ±100 ppm	
			The frequency stability contains the frequency tolerance at 25°C, the temperature stability, supply voltage change and load change. The aging is ±3ppm max. per year.		
OPERATING TEMPERATURE RANGE			-10/+60°C ~ -40/+85°C		
STORAGE TEMPERATURE RANGE			-55/+125°C		
INPUT	VOLTAGE		+3.0 VDC ±10%		
	CURRENT		0.2 ~ 32.0 MHz = 1.8 mA max. (No Load)		
			32.0 ~ 54.0 MHz = 2.5 mA max. (No Load)		
			54.0 ~ 80.0 MHz = 5.0 mA max. (No Load)		
			80.0 ~ 125.0 MHz = 6.0 mA max. (No Load)		
			125.0 ~ 167.0 MHz = 8.0 mA max. (No Load)		
OUPUT	SYMMETRY	STANDARD	40/60% at 50% VDD Level		
		OPTION	45/55% at 50% VDD Level		
	RISE AND FALL TIME		5 ns max. (L _{CMOS} 15pF = 10~90% VDD Level)		
	"0" LEVEL	CMOS	10% VDD max.		
	"1" LEVEL		90% VDD min.		
	LOAD		CMOS	15 pF max.	
PIN1		STANDARD	WITH ENABLE/DISABLE FUNCTION		
ENABLE / DISABLE FUNCTION			PIN #1 (E/D CONTROL)		PIN #3 (OUPUT)
			OPEN		ACTIVE
			HIGH "1" (V _{IH} >80%VDC)		ACTIVE
			LOW "0" (V _{IL} <20%VDC)		HIGH IMPEDANCE
			OUTPUT DISABLE TIME		150 ns max.
			OUTPUT ENABLE TIME		1 ms max.
			Stand-by current 10 µA max.		
DELIVERY FORM			Tape & Reel / 2.000 pcs. per reel, lower QTY possible		
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION					

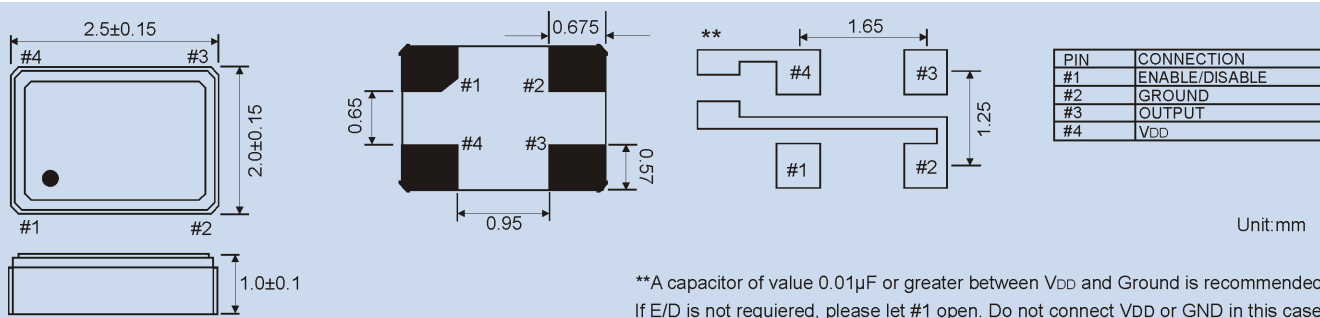
CRYSTALS
OSCILLATORS
CERAMIC RESONATORS


Premium Quality by
PETERMANN-TECHNIK

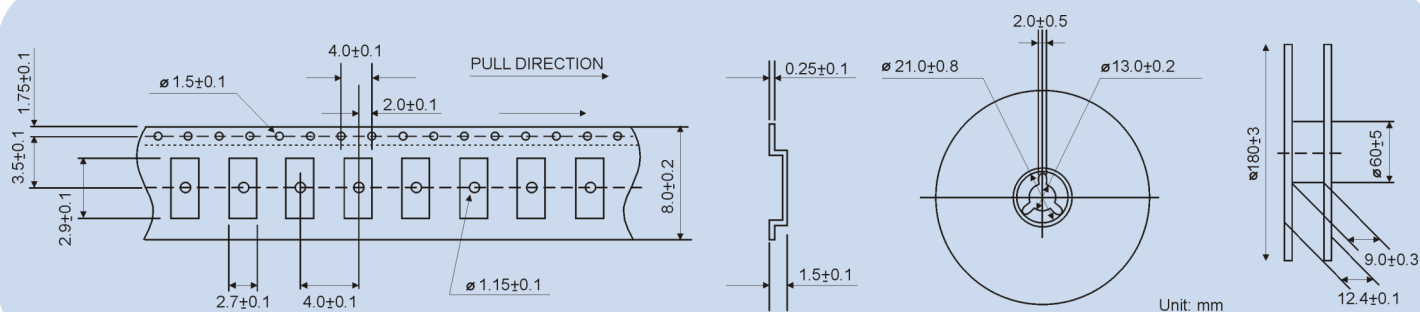
CERAMIC FILTERS
SAW COMPONENTS

Spec.01 • REV.00 • August 2013

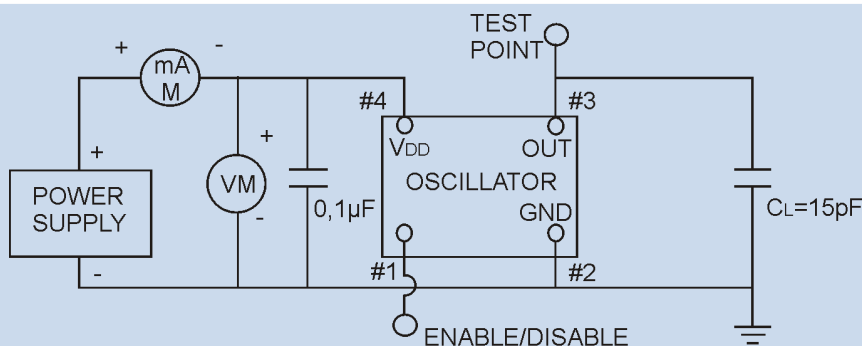
OUTLINE DRAWING



REEL SPECIFICATION



TEST CIRCUIT CMOS



NOTE: CL includes probe and fixture capacitance

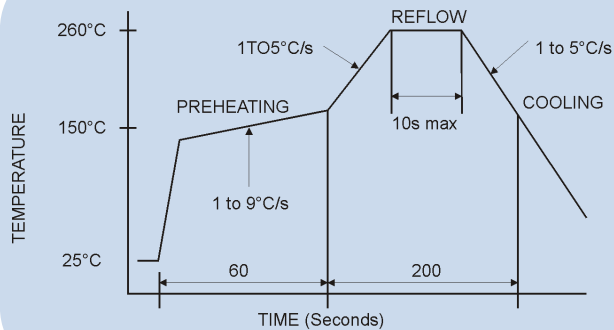
CRYSTALS
OSCILLATORS
CERAMIC RESONATORS

PT
 Premium Quality by
PETERMANN-TECHNIK

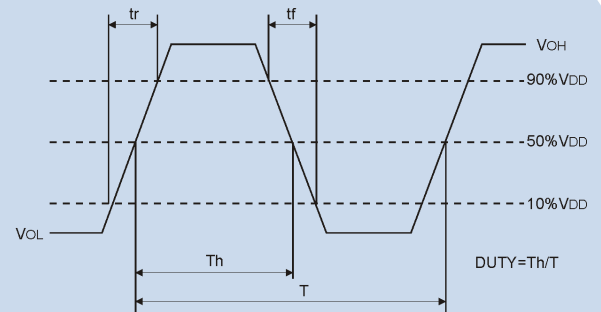
CERAMIC FILTERS
SAW COMPONENTS

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REFLOW SOLDER PROFILE



OUTPUT WAVE FORM CMOS



ORDERING INFORMATION

Series & Voltage	Symmetry	PIN1	Frequency Stability	Temperature Range Options	Frequency	Delivery Form
SXO30LP-02502	B*=40/60% or S=45/55%	E = E/D	B*= 100ppm or O=20~50ppm	B*= 0+70°C N=-10+60°C M=-20+70°C W=-40+85°C	27.000 MHz	T

Example: SXO30LP-02502-S-E-50-W-27.000MHz-T

PLEASE INDICATE YOUR REQUIRED PARAMETERS

*B=BLANK, S=SPECIAL, E=ENABLE/DISABLE, O=OPTION, T=TAPE AND REEL

CRYSTALS
OSCILLATORS
CERAMIC RESONATORS



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CERAMIC FILTERS
SAW COMPONENTS

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