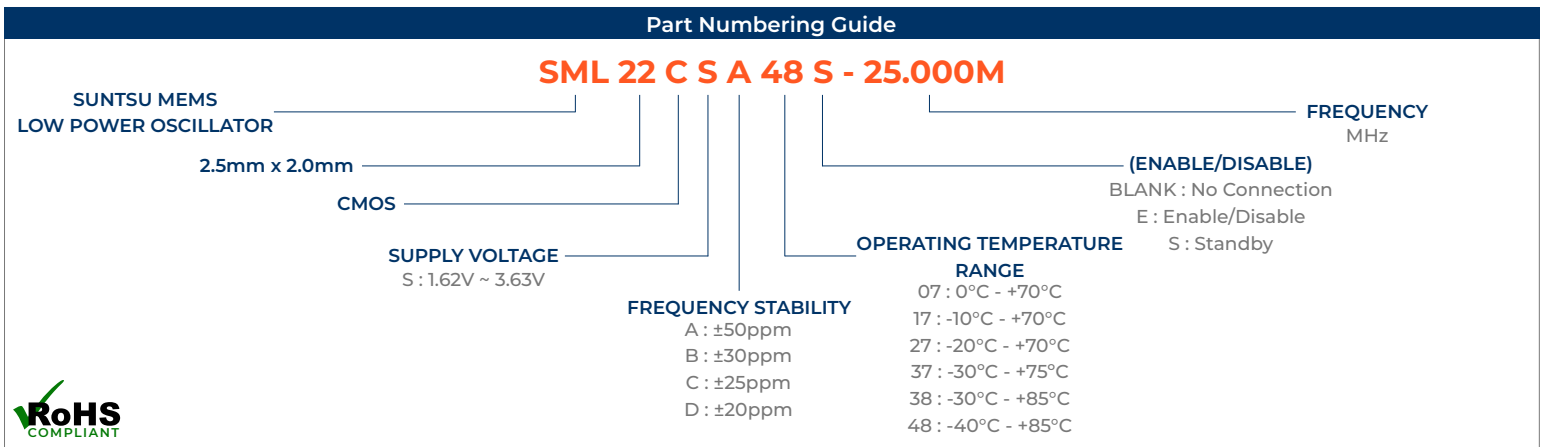


Features
• ± 20 ppm (Frequency Stability) Available
• MEMS Oscillator
• LVC MOS/HCMOS Output
• 1.62V to 3.63V Continuous Supply Voltage Option
• Low Power Programmable Oscillator

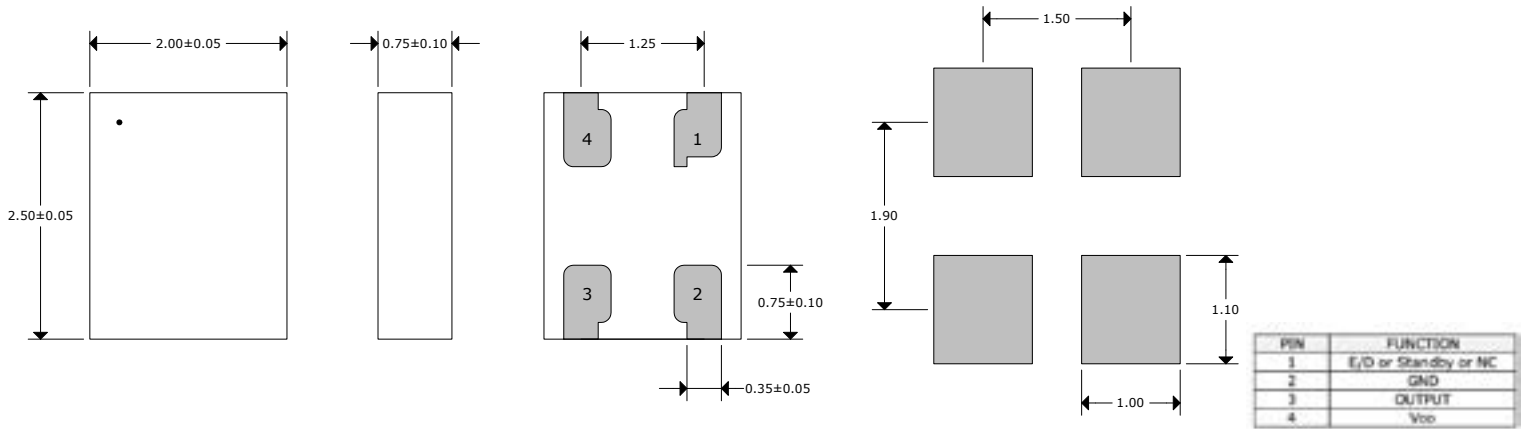
Applications
• Intelligent Terminal
• Ethernet
• Consumer Electronics
• Communication Equipment



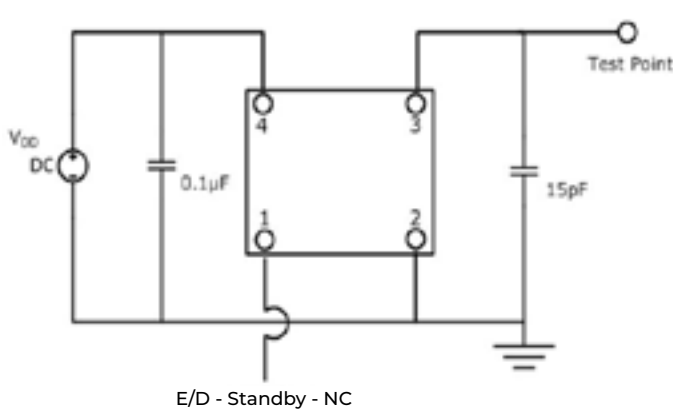
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	1		110	
Frequency Stability (Includes Initial Tolerance at 25°C, Frequency Stability over Operating Temperature, Output Load Change, Supply Voltage Change.)	ppm	-20		20	See part numbering guide for options
First Year Aging	ppm	-1.5		1.5	
Operating Temperature	°C	-40		85	See part numbering guide for options
Storage Temperature	°C	-65		150	
Supply Voltage (V _{DD})	V	1.62		3.63	
Current (I _{DD}) - 1.8V to 3.3V	mA		3.8	4.5	No load condition, f=20MHz
OE Disable Current	mA			4.2	
Standby Current	µA			4.3	
Output Logic Levels High (V _{OH})	V	0.90*V _{DD}			
Output Logic Levels Low (V _{OL})	V			0.10*V _{DD}	
Rise (TR) and Fall (TF) Time	ns		1.3	2.5	
Symmetry (Duty Cycle)	%	45	50	55	
Input Voltage - Enable	V	0.7*V _{DD}			
Input Voltage - Disable	V			0.3*V _{DD}	
Input Pull-up Impedance	kΩ	50	87	150	
Start-Up Time	ms			5	
Enable/Disable Time	ns			130	
Resume Time	ms			5	
RMS Period Jitter	ps		1.8	3	
Peak to Peak Period Jitter	ps		12	25	
RMS Phase Jitter (Random)	ps		1.3	2	12kHz ~ 20MHz

Outline Drawing & Land Pattern

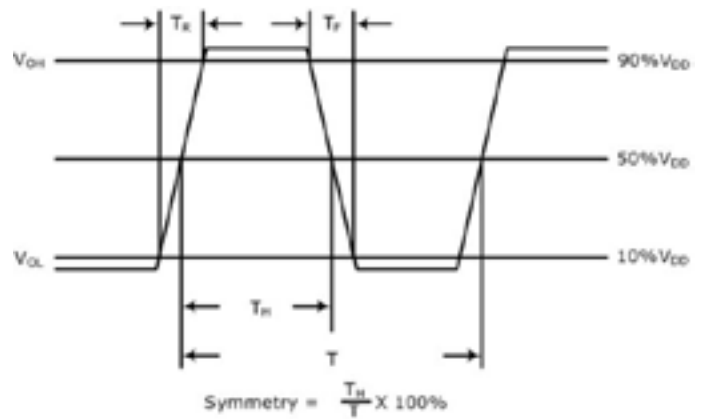
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



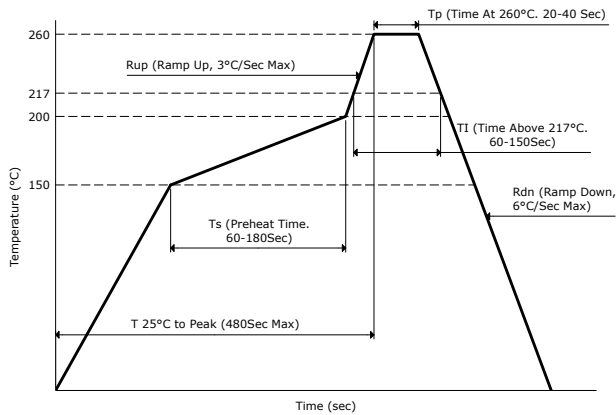
Test Circuit (CMOS)



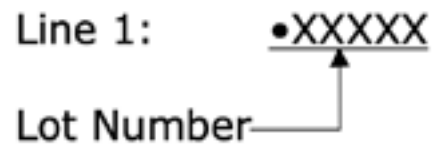
Waveform (CMOS)



Reflow Profile

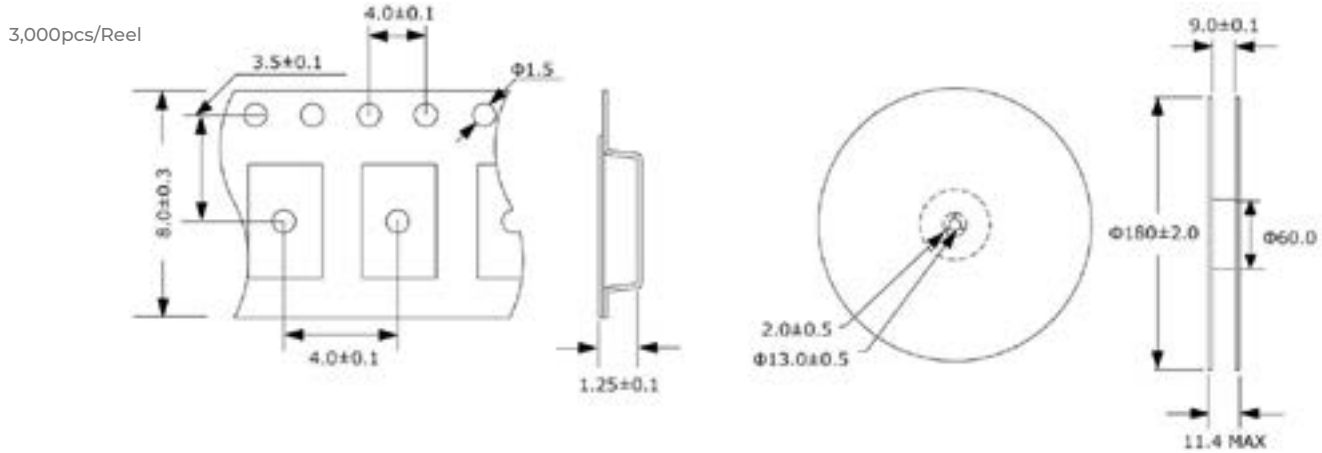


Part Marking



Tape And Reel Dimensions

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.


Environmental Specifications

Temperature Cycling	JESD22, Method A104
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Solderability	MIL-STD-883, Method 2003
Moisture Sensitivity	MSL 1 @ 260°C

Mechanical Specifications

Mechanical Shock	MIL-STD-202, Method 213, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A
Moisture Resistance	MIL-STD-883, Method 1004
Resistance to Solvents	MIL-STD-202, Method 215
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K