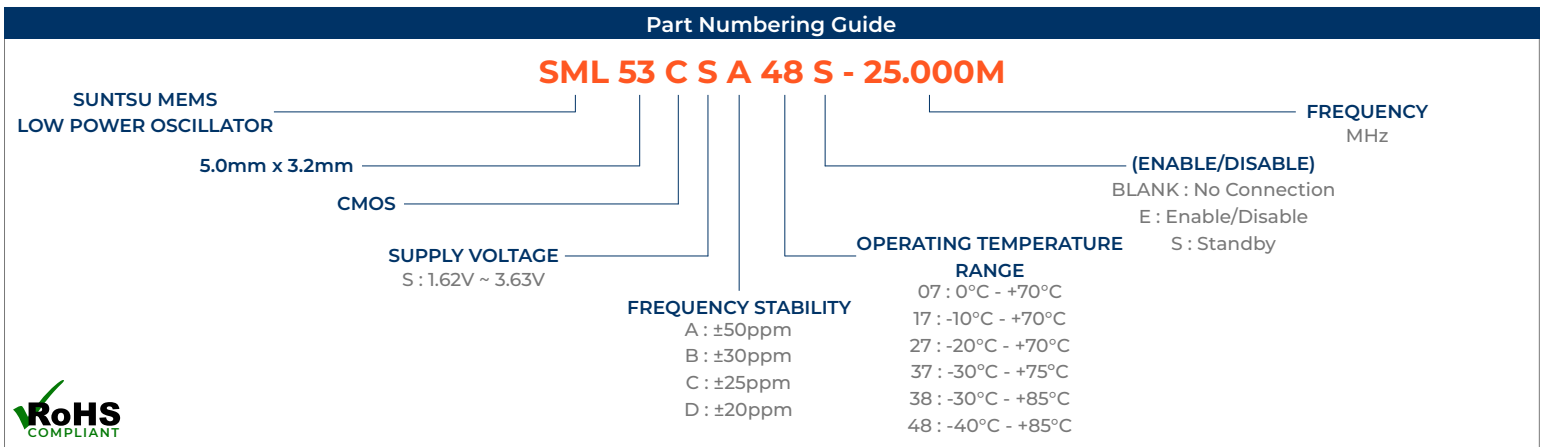


Features
• ± 20 ppm (Frequency Stability) Available
• MEMS Oscillator
• LVC MOS/HCMOS Output
• 1.62V to 3.63V Continuous Supply Voltage Option
• Low Power Programmable Oscillator

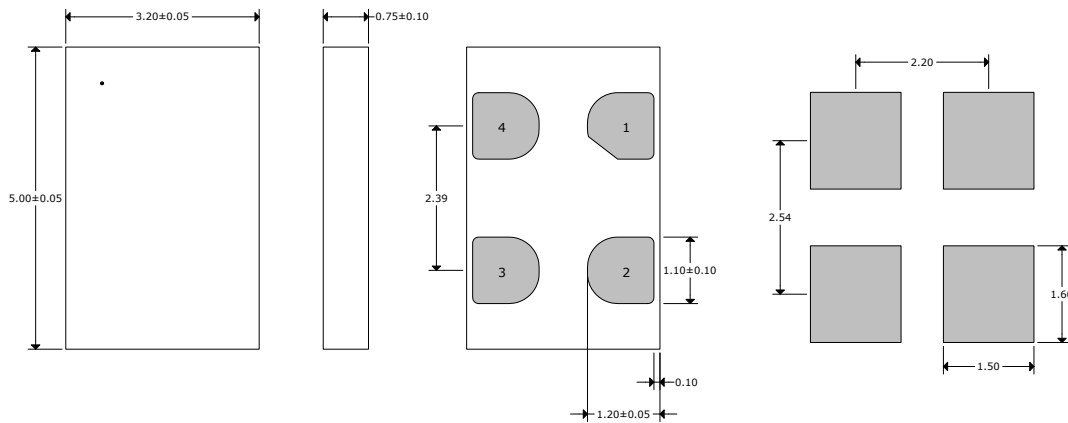
Applications
• Intelligent Terminal
• Ethernet
• Consumer Electronics
• Communication Equipment



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

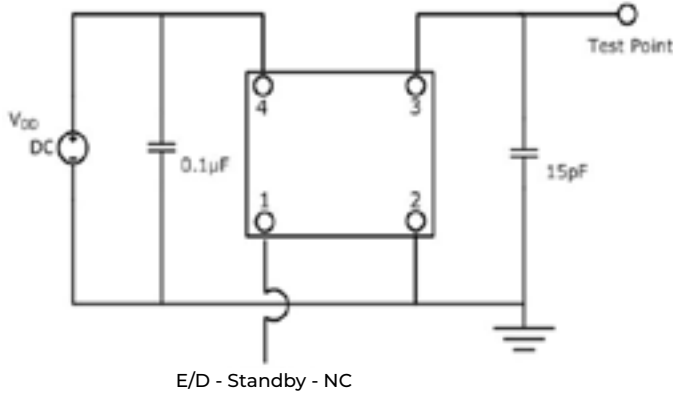
Outline Drawing & Land Pattern

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

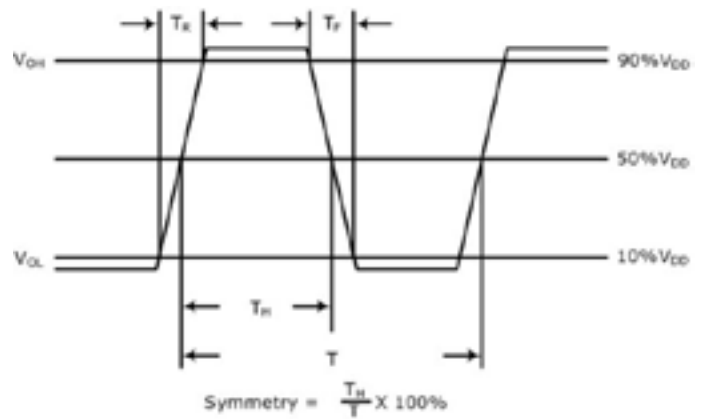


PIN	FUNCTION
1	E/D or Standby or NC
2	GND
3	OUTPUT
4	V _{DD}

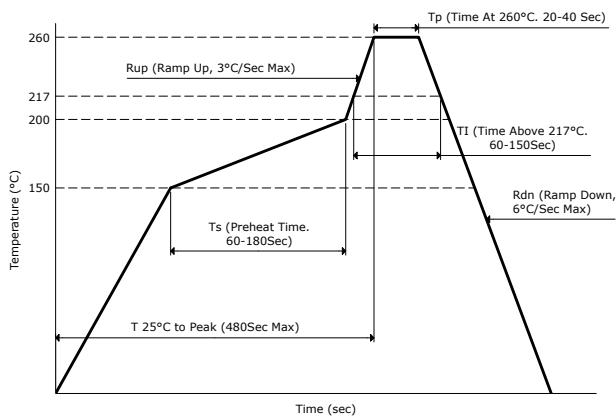
Test Circuit (CMOS)



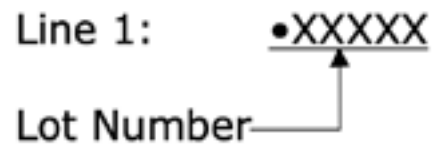
Waveform (CMOS)



Reflow Profile



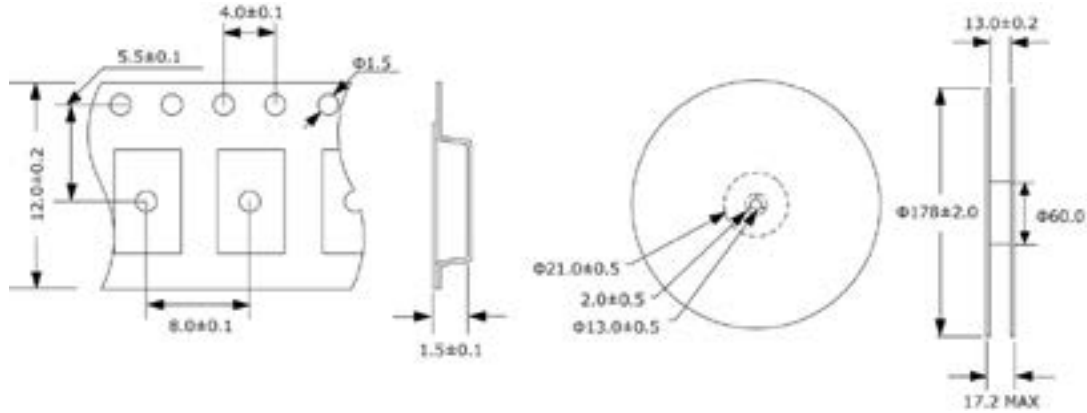
Part Marking



Tape And Reel Dimensions

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

1,000pcs/Reel



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