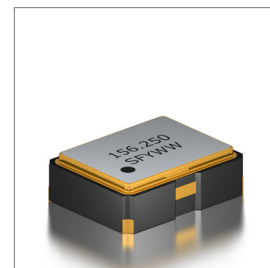


Features

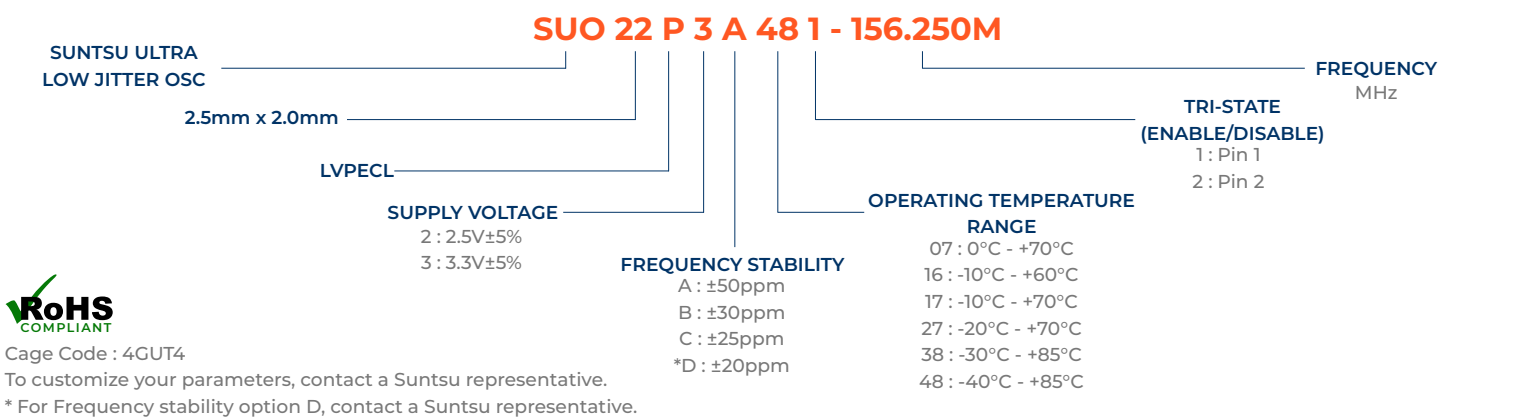
- ± 20 ppm (Frequency Stability) Available
- Ceramic Package
- LVPECL
- Tape and Reel
- Ultra Low Phase Jitter

Applications

- Fiber Channel
- Gigabit Ethernet
- PCI Express



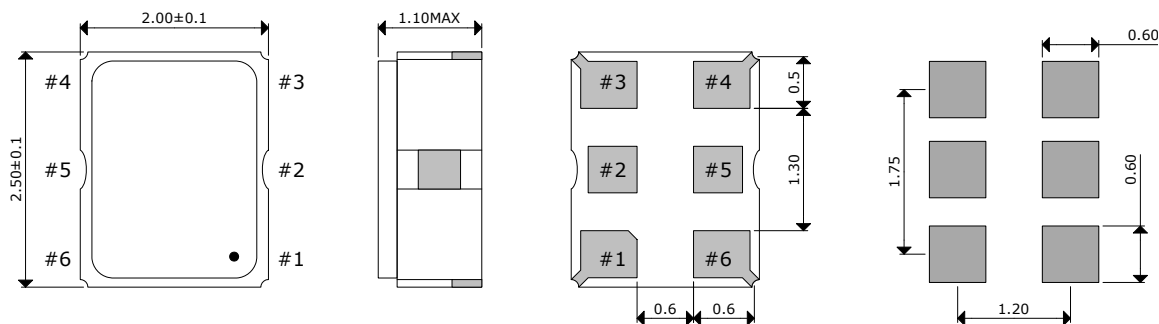
Part Numbering Guide



Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	13.5		156.25	
Frequency Stability (Includes Initial Tolerance at 25°C, Frequency Stability over Operating Temperature, Output Load Change, Supply Voltage Change, and First Year Aging at 25°C.)	ppm	-20		+20	See part numbering guide for options
Operating Temperature	°C	-40		+85	See part numbering guide for options
Storage Temperature	°C	-55		+125	
Supply Voltage (V _{DD}) - 2.5V option	V	2.375	2.5	2.625	
Supply Voltage (V _{DD}) - 3.3V option	V	3.125	3.3	3.465	
Current (I _{DD}) - 2.5V option	mA			50	
Current (I _{DD}) - 3.3V option	mA			50	
Output Load (LVPECL)	Ω			50	50 Ω into V _{DD} -2.0V _{DC}
Output Logic Levels High (V _{OH})	V	V _{DD} -1.025			
Output Logic Levels Low (V _{OL})	V			V _{DD} -1.62	
Rise (TR) and Fall (TF) Time	ns			1.0	
Symmetry (Duty Cycle)	%	45	50	55	20% - 80% Output Swing Level
Tri-State Input Voltage - Enable	V	0.7*V _{DD}			No Connection
Tri-State Input Voltage - Disable	V			0.3*V _{DD}	
Start-Up Time	ms			10	
Phase Jitter (12kHz ~ 5MHz)	ps		0.6	1.0	Freq. <40.000M
Phase Jitter (12kHz ~ 20MHz)	ps		0.4	0.8	Freq. 40.000M - 124.999M
Phase Jitter (12kHz ~ 20MHz)	ps		0.1	0.2	Freq. 125.000M - 156.250M

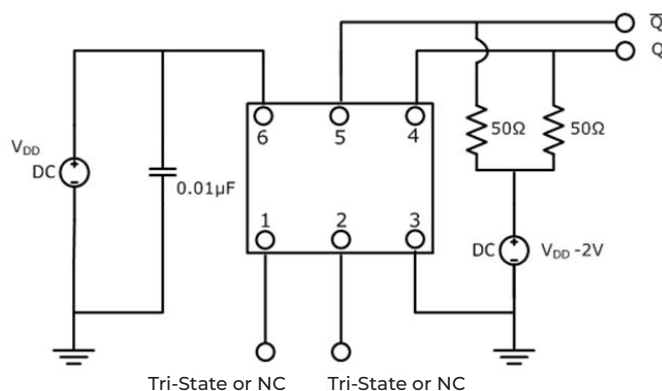
Outline Drawing & Land Pattern

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

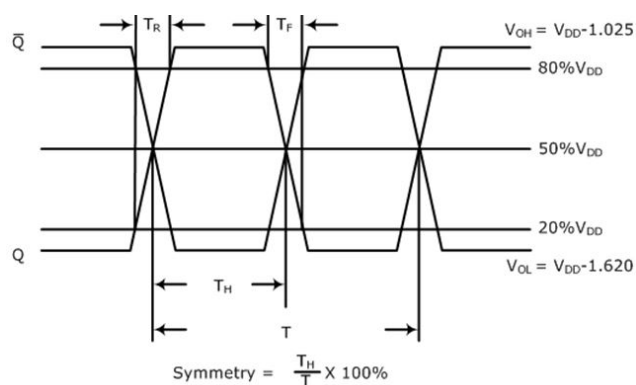


PIN	FUNCTION
1	TRI-STATE or NC
2	NC
3	GND
4	OUTPUT
5	COMP OUTPUT
6	V _{DD}

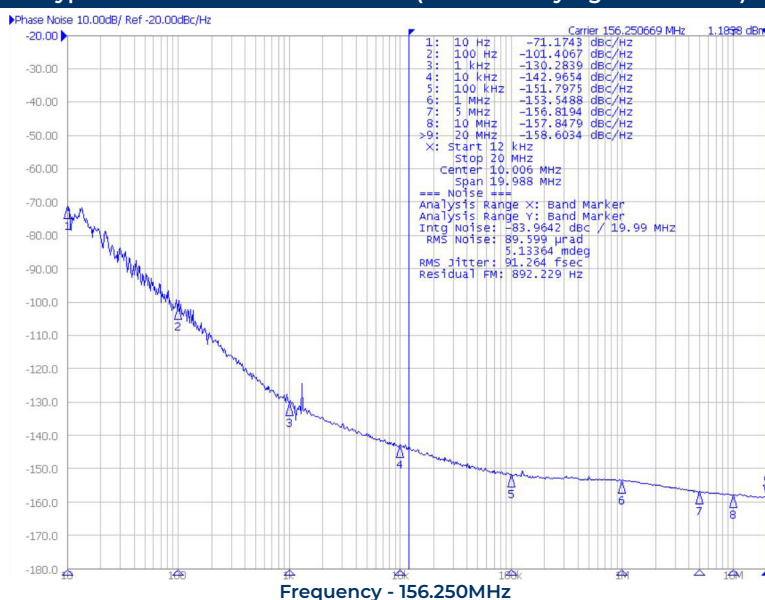
Test Circuit (LVPECL)



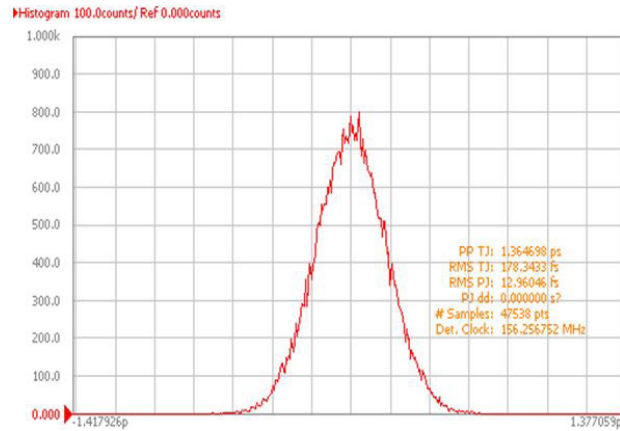
Waveform (LVPECL)



Typical Phase Noise Performance (Measured By Agilent E5052A)

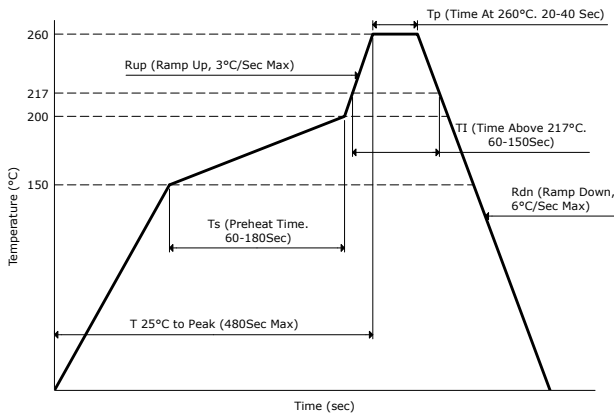


Typical Jitter Performance (Measured By Agilent E5052A)

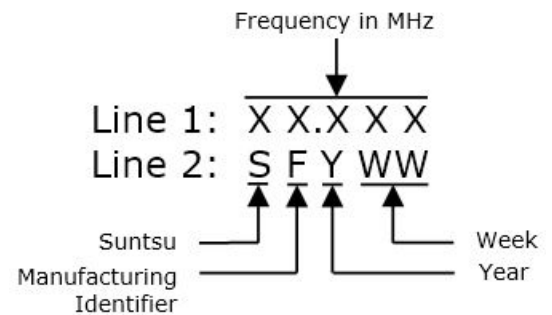


Frequency - 156.250MHz

Reflow Profile



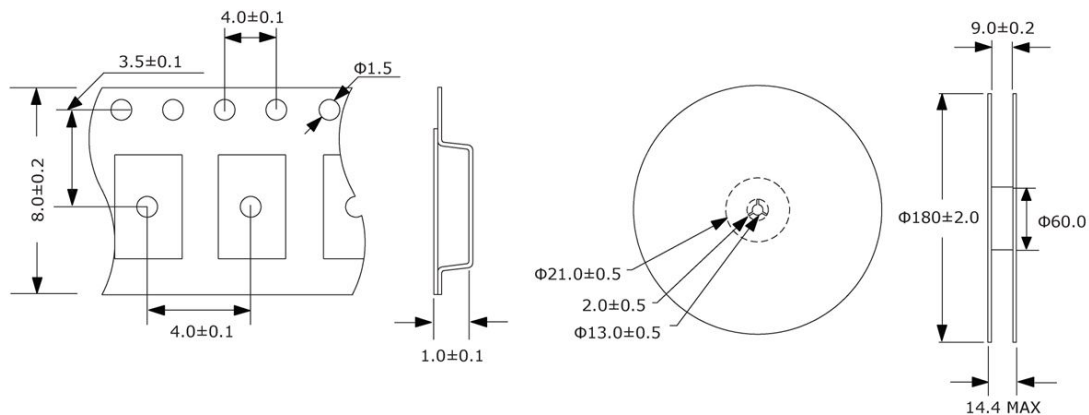
Part Marking



Tape And Reel Dimensions

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

3,000pcs/Reel



Environmental Specifications		Mechanical Specifications	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Moisture Resistance	MIL-STD-883, Method 1004
Solderability	MIL-STD-883, Method 2003	Resistance to Solvents	MIL-STD-202, Method 215
Moisture Sensitivity	J-STD-020, MSL 1	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K