

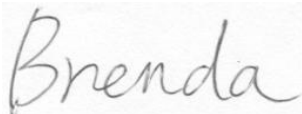
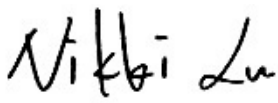



A Product Line of  
Diodes Incorporated



# SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	<b>25.000625 MHz</b>
PRODUCT TYPE	<b>TYPE GC 49S SMD QUARTZ CRYSTAL</b>
PART NUMBER	<b>GC2500137</b>
CUSTOMER P/N	
ISSUE DATE	<b>February 2, 2018</b>
VERSION	<b>B</b>

APPROVED	PREPARED	QA
		

## Diodes Incorporated

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\*RoHS Compliant  
\*HF-Halogen Free  
\*REACH Compliant

# TYPE GC 49S SMD QUARTZ CRYSTAL

## GC2500137

VER.B 02-FEB-18

### VERSION HISTORY

Version No.	Version Date	Description	Notes
A	Apr. 8, 2011	Initial Release	
B	Feb. 2, 2018	Updated logo	

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### ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	25.000625	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	10	pF	
Calibration Tolerance	FL	$\pm 20$	ppm	at 25°C $\pm 3^{\circ}\text{C}$
Operating Temperature Range	TR	-40 to +85	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	$\pm 20$	ppm	Reference to the Frequency at 25°C
Operating Drive Level		100	$\mu\text{W}$	
Maximum Drive Level		1000	$\mu\text{W}$	
Equivalent Series Resistance	ESR	20	$\Omega$	Max.
Shunt Capacitance	C0	4	pF	Max.
C0/C1 Ratio	C0/C1	220 / 240		Typ. / Max.
Aging at 25°C		$\pm 3$	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	M $\Omega$	Min

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## RELIABILITY SPECIFICATIONS

### MECHANICAL AND ENVIRONMENTAL RATINGS:

- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

## SUGGESTED IR REFLOW PROFILE

\*As per IPC-JEDEC J-STD-020D



Note:

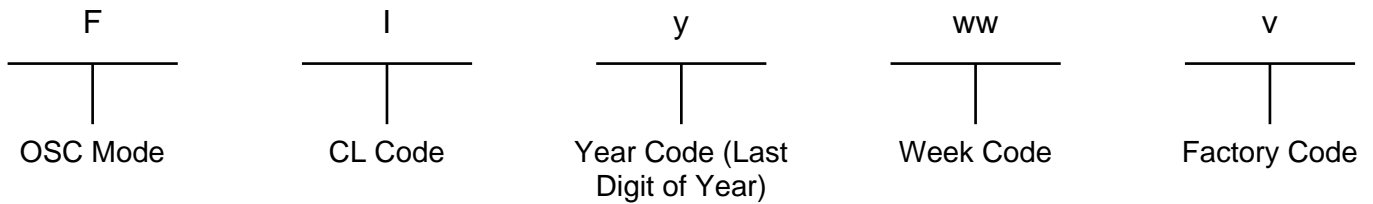
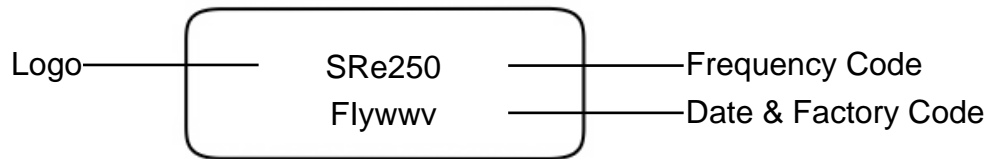
	Stage	Temperature	Time
A	Preheat	150~200°C	60~120 Sec
B	Primary Heat	217°C	60~150 Sec
C	Peak	260°C	10 Sec

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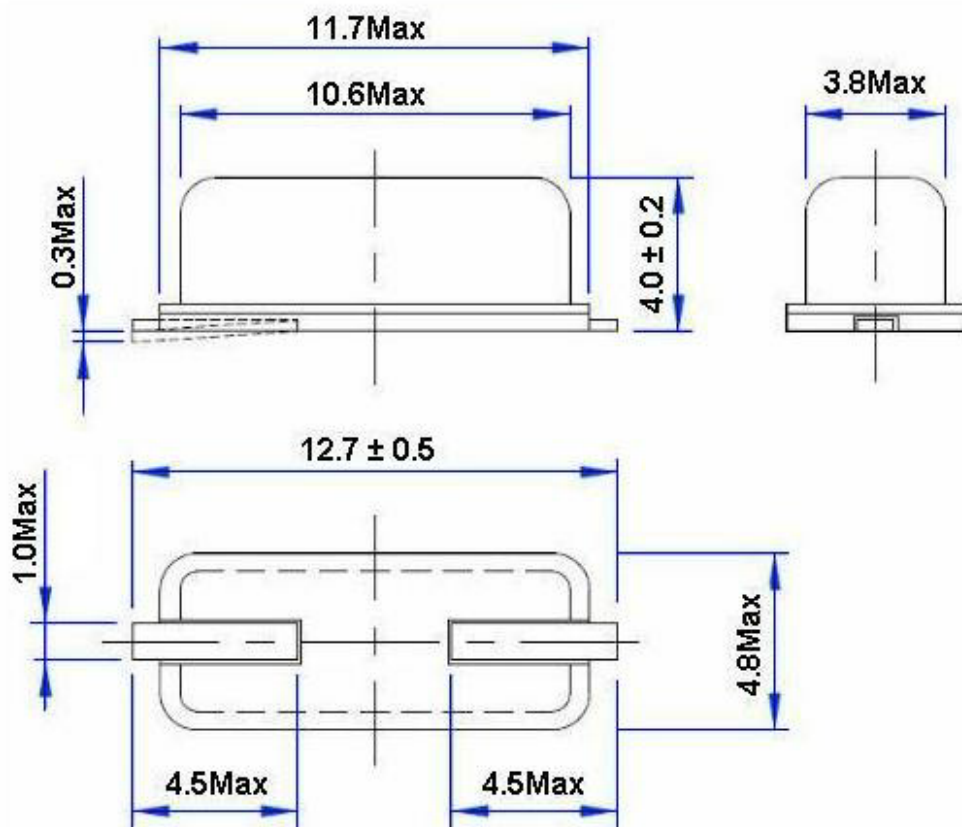
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### MARKING



### MECHANICAL DRAWINGS ( Scale: None. Dimensions are in mm.)

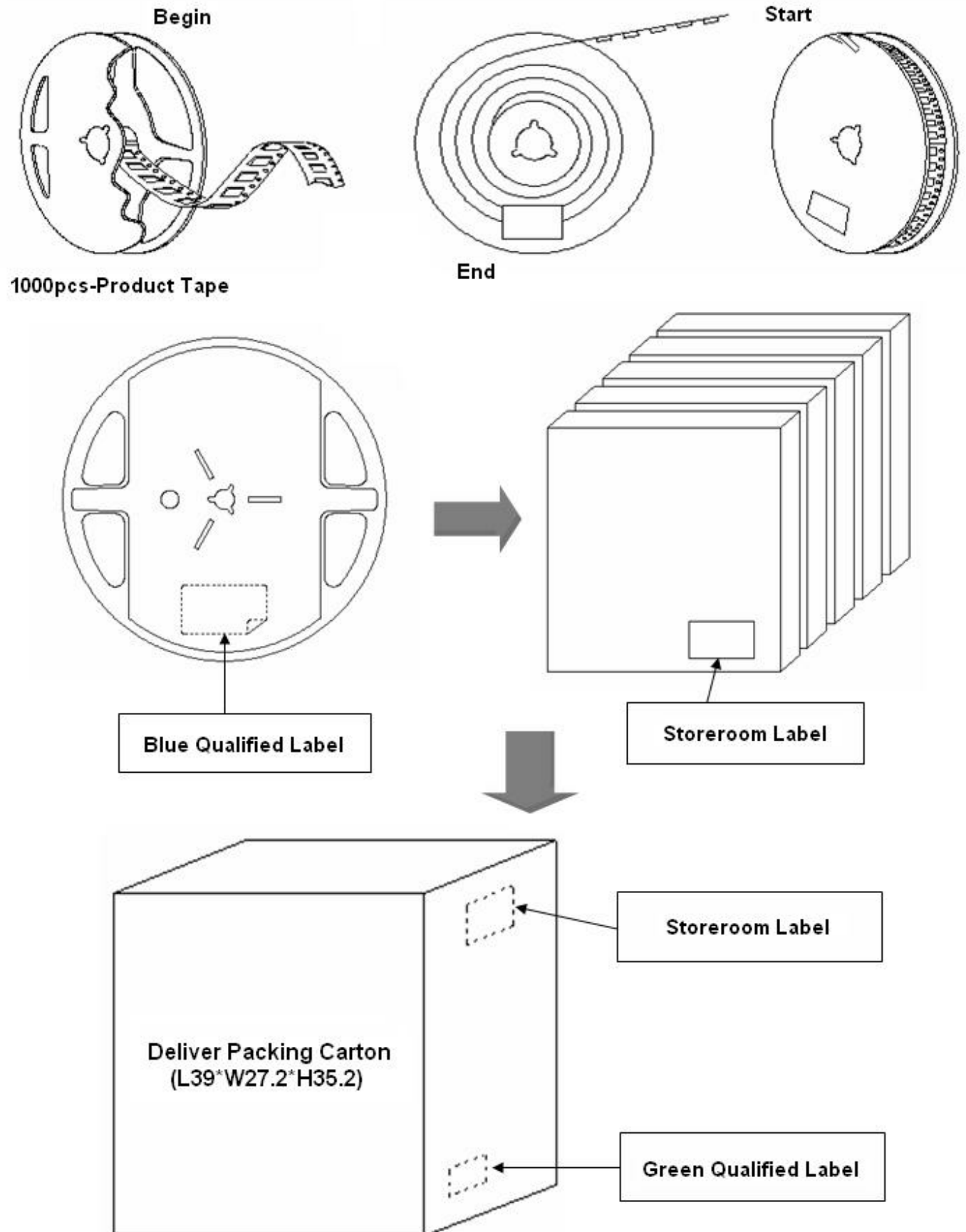


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### PACKING



单击下面可查看定价，库存，交付和生命周期等信息

[>>Diodes Incorporated\(达达科技\(美台\)\)](#)