



A Product Line of
Diodes Incorporated



SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	25.000000 MHz
PRODUCT TYPE	TYPE GC 49S SMD QUARTZ CRYSTAL
PART NUMBER	GC2500126
CUSTOMER P/N	
ISSUE DATE	April 23, 2018
VERSION	E

APPROVED	PREPARED	QA
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Diodes Incorporated

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*RoHS Compliant
*HF-Halogen Free
*REACH Compliant

TYPE GC 49S SMD QUARTZ CRYSTAL

GC2500126

VER.E 23-APR-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
A	Jul. 2, 2010	Initial Release	
B	Jul. 22, 2010	Changed ESR from 40ohms to 30ohms	
C	Oct. 1, 2010	Changed calibration tolerance from +/-30ppm to +/-20ppm and changed freq. stability from +/-30ppm to +/-25ppm	
D	Jul. 29, 2011	Updated Suggested IR Reflow Profile & Format	
E	Apr. 23, 2018	Updated logo	

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ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	25.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	16	pF	
Calibration Tolerance	FL	± 20	ppm	at 25°C±3°C
Operating Temperature Range	TR	-20 to +70	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	± 25	ppm	Reference to the Frequency at 25°C
Operating Drive Level		100	μW	
Maximum Drive Level		500	μW	
Equivalent Series Resistance	ESR	30	Ω	Max.
Shunt Capacitance	C0	7	pF	Max.
Aging at 25°C		± 5	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	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:

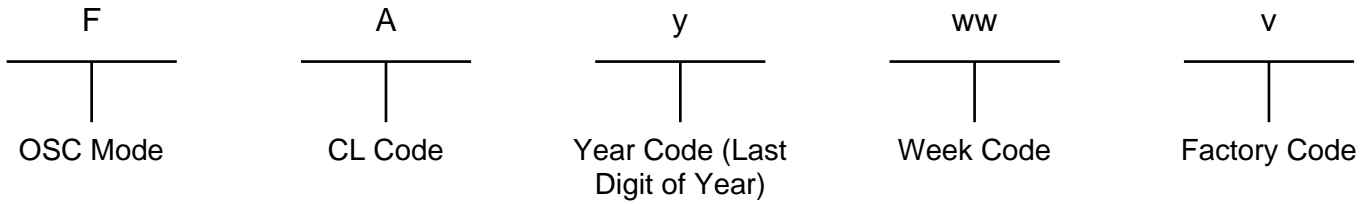
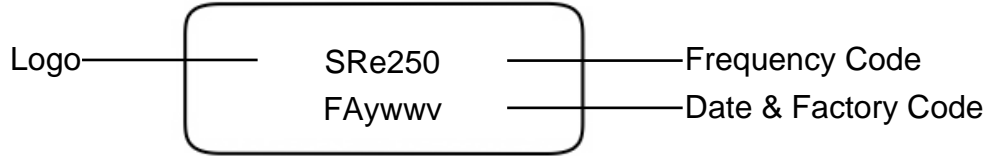
	Stage	Temperature	Time
A	Preheat	150~200°C	60~120 Sec
B	Primary Heat	217°C	60~150 Sec
C	Peak	260°C	10 Sec

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MARKING



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

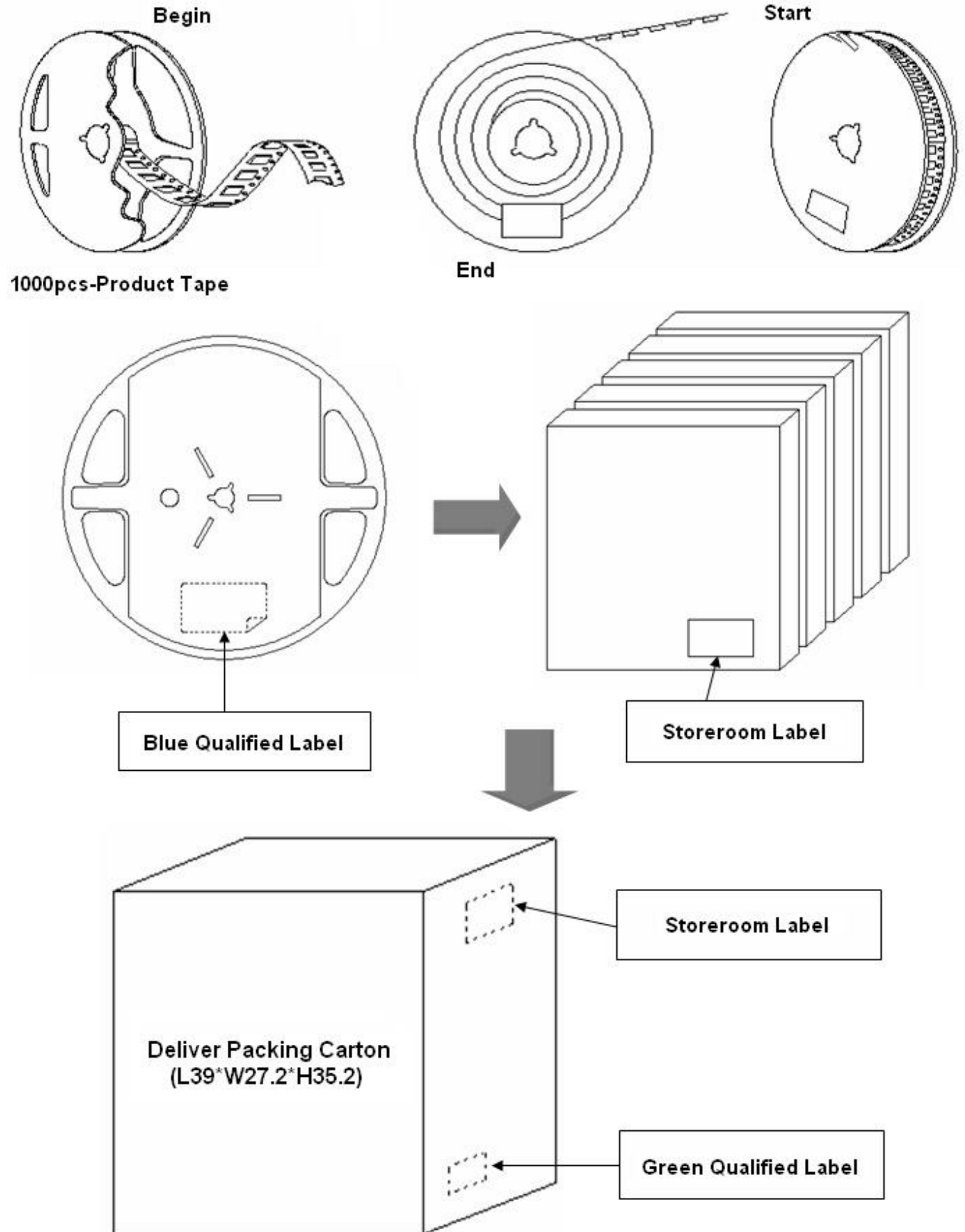


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PACKING



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\(美台\)\)](#)