Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions

$$\label{eq:max-energy} \begin{split} \text{Max-Eyth-Straße 1} & \cdot \text{74638 Waldenburg} \cdot \text{Germany} \\ \text{Tel.} & +49 \, (0) \, 79 \, 42 \, 945 - 0 \cdot \text{Fax} \, +49 \, (0) \, 79 \, 42 \, 945 - 400 \\ \text{eiSos@we-online.de} & \cdot \text{www.we-online.de} \end{split}$$



Product / Process Change Notification (PCN)					
PCN #:	PCN_IndGF_20200207	Change Category:			
Affected Series:	WE-GF; 1210 744764xxx, 1812 744766xxx	□ Equipment / Location☑ General Data□ Material☑ Process			
PCN Date:	November 07, 2019				
Effective Date:	February 07, 2020	 □ Product Design □ Shipping / Packaging □ Supplier □ Software 			
Contact:	Product Management	Data Sheet Change:			
Phone:	+49 (0) 7942 - 945 5001	⊠ Yes	□ No		
Fax:	+49 (0) 7942 - 945 5179	Attachment:			
E-Mail:	pcn.eisos@we-online.com	□ Yes	⊠ No		
DESCRIPTION AND PURPOSE OF CHANGE: Because of a database mismatch, Würth Elektronik will correct the reflow specification to 245°C max. for 10s max. and will correct the MSL (moisture sensitivity level) to 3 in the datasheet of the product series WE-GF.					

All products with date code 2019-11-07 or later, will be affected by this data sheet correction.

This is a datasheet correction only. There will be no change in form, fit, function, quality or reliability of the product.

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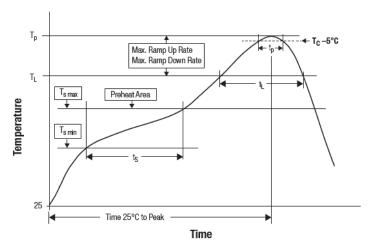


DETAIL OF CHANGE:

Reflow Profile:

current

Classification Reflow Profile for SMT components:



Profile Feature		Value
Preheat Temperature Min	T _s min	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time t _s from T _{s min} to T _{s max}	t _s	60 - 120 seconds
Ramp-up Rate (T _L to T _p)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time t _∟ maintained above T _∟	t∟	60 - 150 seconds
Peak package body temperature	Tp	see table below
Time within 5 °C of actual peak temperature	tp	20 - 30 seconds
Ramp-down Rate (T _L to T _p)		6 °C / second max.
Time 25 °C to peak temperature		8 minutes max.

Package Classification Reflow Temperature:

Properties	Volume mm³ <350	Volume mm ³ 350-2000	Volume mm³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

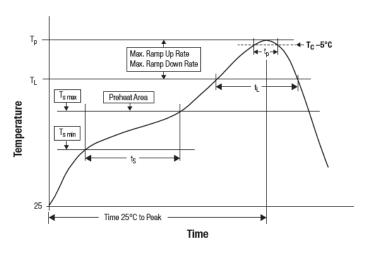
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will change to

Classification Reflow Profile for SMT components:



Profile Feature		Value
Preheat Temperature Min	T _s min	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time t_s from $T_{s \text{ min}}$ to $T_{s \text{ max}}$	ts	60 - 120 seconds
Ramp-up Rate (T _L to T _p)		3 °C/ second max.
Liquidous Temperature	T _L	217 °C
Time t _L maintained above T _L	t _L	60 - 150 seconds
Peak package body temperature	Tp	245 °C max.
Time within 5 °C of actual peak temperature	t _p	10 seconds max.
Ramp-down Rate (T _L to T _p)		6 °C / second max.
Time 25 °C to peak temperature		8 minutes max.

closely based on IPC / JEDEC-J-STD-020E

MS Level:

The change from MSL 1 to level 3 will implemented in datasheet as well.

The storage temperature (in original packing) will change:

from MSL1: -20°C up to +40°C, 75% RH max.

to MSL3: < 40 °C; < 90 % RH.

RELIABILITY / QUALIFICATION SUMMARY:

Classification test according IPC / JEDEC-J-STD-020E plus 3 times reflow was performed.