CHIPQUIK®

SMD291AX250T5

Datasheet revision 1.0

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Solder Paste No-Clean Sn63/Pb37 in Jar 250g T5 Mesh

Product Highlights

Printing speeds up to 100mm/sec
Long stencil life
Wide process window
Clear residue
Low voiding
Excellent wetting compatibility on most board finishes
Print grade
Compatible with enclosed print heads
Passes BONO test

Specifications

Alloy:	Sn63/Pb37
Mesh Size:	T5
Micron (µm) Range:	15-25
Flux Type:	Synthetic No-Clean
Flux Classification:	REL0
Metal Load:	89.75% Metal by Weight
Melting Point:	183°C (361°F)
Packaging:	Jar 250g
Shelf Life:	Refrigerated >12 months, Unrefrigerated >6 months

Printer Operation

Print Speed: 25-100mm/sec
Squeegee Pressure: 70-250g/cm of blade
Under Stencil Wipe: Once every 10-25 prints, or as necessary

Stencil Life

>8 hours @ 20-50% RH 22-28°C (72-82°F)
>4 hours @ 50-70% RH 22-28°C (72-82°F)

Stencil Cleaning

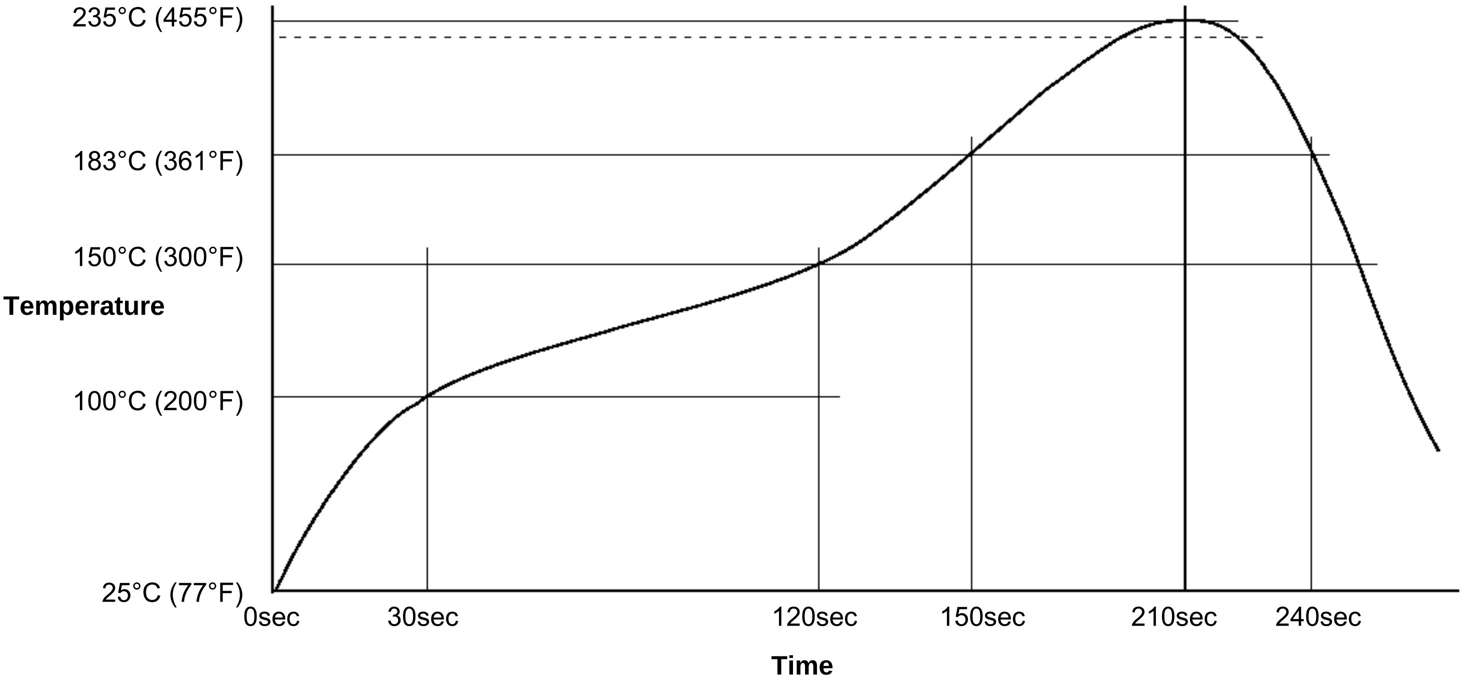
Automated stencil cleaning systems for both stencil and misprinted boards. Manual cleaning using isopropyl alcohol (IPA).

Storage and Handling

Refrigerate at 3-8°C (37-46°F). Do not freeze. Allow 4 hours for solder paste to reach an operating temperature of 20-25°C (68-77°F) before use.

Recommended Profile

Reflow profile for Sn63/Pb37 solder assembly, designed as a starting point for process optimization.



Test Results

Test J-STD-004 or other requirements as stated	Test Requirement	Result
Copper Mirror	IPC-TM-650: 2.3.32	L: No breakthrough
Corrosion	IPC-TM-650: 2.6.15	L: No corrosion
Quantitative Halides	IPC-TM-650: 2.3.28.1	L: <0.5%
Electrochemical Migration	IPC-TM-650: 2.6.14.1	L: <1 decade drop (No-clean)
Surface Insulation Resistance 85°C, 85% RH @ 168 Hours	IPC-TM-650: 2.6.3.7	L: ≥100MΩ (No-clean)
Tack Value	IPC-TM-650: 2.4.44	44g
Viscosity – Malcom @ 10 RPM/25°C ($x10^3$mPa/s)	IPC-TM-650: 2.4.34.4	Print: 210-300, Dispense: 100-140
Visual	IPC-TM-650: 3.4.2.5	Clear and free from precipitation
Conflict Minerals Compliance	Electronic Industry Citizenship Coalition (EICC)	Compliant
REACH Compliance	Articles 33 and 67 of Regulation (EC) No 1907/2006	Contains no substance >0.1% w/w that is listed as a SVHC or restricted for use in solder materials

Conforms to the following Industry Standards:

J-STD-004B, Amendment 1 (Solder Fluxes): Yes
J-STD-005A (Solder Pastes): Yes
J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders): Yes
RoHS 2 Directive 2011/65/EU: No