## **RMA591L0LT10**

Datasheet revision 1.0 www.chipquik.com

### RMA Solder Paste Sn42/Bi57.6/Ag0.4 Ultra Low Balling T4 (35g syringe) ROL0

#### **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 Dispense grade
Compatible with enclosed print heads
RoHS 3 and REACH compliant

#### **Specifications**

Alloy: Sn42/Bi57.6/Ag0.4

Mesh Size: T4
Micron (µm) Range: 20-38

Flux Type: Synthetic No-Clean

Flux Classification: ROL0

Metal Load:87% Metal by WeightMelting Point:138°C (281°F)Packaging:10cc/35g Syringe

Shelf Life: Refrigerated >6 months, Unrefrigerated >2 months \*See notes below:

\*Shelf Life Notes: Chip Quik® solder paste is good past its quoted shelf life, regardless of refrigeration. Before use, visually inspect the solder paste to ensure it is not dried out or clumpy, or check stencil release. If stored in a jar, stir the product thoroughly for 2-3 minutes before inspection and use.

Chip Quik® solder paste is manufactured using high quality synthetic flux and precision atomized metal powder. Chip Quik® solder paste is guaranteed for 12 months from date of manufacture, regardless of refrigeration. If you have any issues with our solder paste, please contact Chip Quik® directly for no charge warranty replacement. Please retain original bill of sale, and solder paste in original container as we may request its return for internal R&D testing purposes.

#### **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.

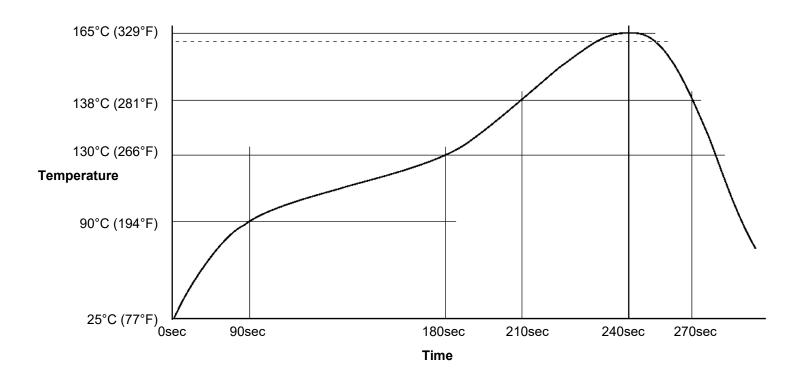
#### **Transportation**

This product has no shipping restrictions. Shipping below 0°C (32°F) or above 25°C (77°F) for normal transit times by ground or air will not impact this product's stated shelf life.



#### **Recommended Profile**

Reflow profile for Sn42/Bi57.6/Ag0.4 solder assembly, designed as a starting point for process optimization.



#### **Test Results**

Test Requirement	Result	
IPC-TM-650: 2.3.32	M: <50% breakthrough	
IPC-TM-650: 2.6.15	M: minor corrosion (uncleaned)	
IPC-TM-650: 2.3.28.1	M: ≥0.05 and <0.5%	
IPC-TM-650: 2.6.14.1	M: <1 decade drop (cleaned)	
IPC-TM-650: 2.6.3.7	M: ≥100MΩ (cleaned)	
IPC-TM-650: 2.4.44	35-40g	
IPC-TM-650: 2.4.34.4	Print: 165-225, Dispense: 85-125	
IPC-TM-650: 3.4.2.5	Clear and free from precipitation	
Electronic Industry Citizenship Coalition (EICC)	Compliant	
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	
	IPC-TM-650: 2.3.32 IPC-TM-650: 2.6.15 IPC-TM-650: 2.3.28.1 IPC-TM-650: 2.6.14.1 IPC-TM-650: 2.6.3.7  IPC-TM-650: 2.4.44 IPC-TM-650: 2.4.34.4  IPC-TM-650: 3.4.2.5 Electronic Industry Citizenship Coalition (EICC) Articles 33 and 67 of Regulation (EC)	

# Conforms to the following Industry Standards: J-STD-004B. Amendment 1 (Solder Fluxes):

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 3 Directive (EU) 2015/863:	Yes

#### **CHIPQUIK® RMA Solder Paste Available Products**

Alloy	Particle Size	Melting Point	Flux Classification	Percent Metal	Packaging	Part Number	
Sn63/Pb37	T4 (20-	183°C (361°F)	183°C (361°F) ROL0 -	87.00%	10cc/35g syringe	RMA591AX10	
	38µm)	100 0 (0011)		90.00%	250g jar	RMA591AX250	
5002/P030/A02	T4 (20-	74 (20- 179°C (354°F)	ROL0	87.00%	10cc/35g syringe	RMA591AXS10	
	38µm)	179 C (334 F)		90.00%	250g jar	RMA591AXS250	
Sn96.5/Ag3.0/Cu0.5	· · · · · · · · · · · · · · · · · · ·		ROL0 -	86.00%	10cc/35g syringe	RMA591L0SNL10	
		217-220°C (423-		88.50%	250g jar	RMA591L0SNL250	
		428°F)		86.00%	10cc/35g syringe	RMA591SNL10	
			KOWI	88.50%	250g jar	RMA591SNL250	
Sn42/Bi57.6/Ag0.4	T4 (20- 38μm) 138°C (281°F)	130°C (301°E)	ROL0	87.00%	10cc/35g syringe	RMA591L0LT10	
				90.00%	250g jar	RMA591L0LT250	
		38µm) 136 C (261 F)	38µm)	ROM1	87.00%	10cc/35g syringe	RMA591LT10
			ROWT	90.00%	250g jar	RMA591LT250	