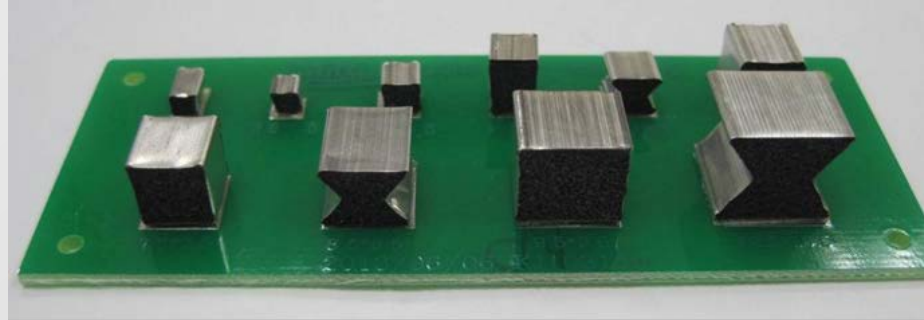


New Product Launch Package

Soft SMD Grounding Contacts

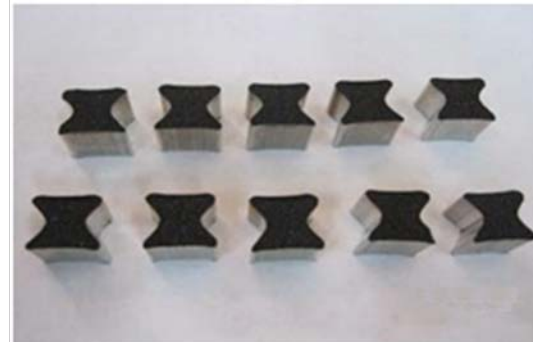
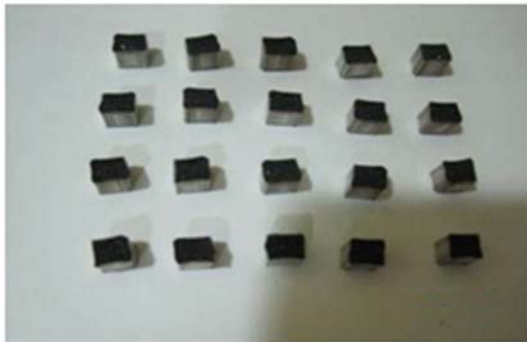


June, 2013

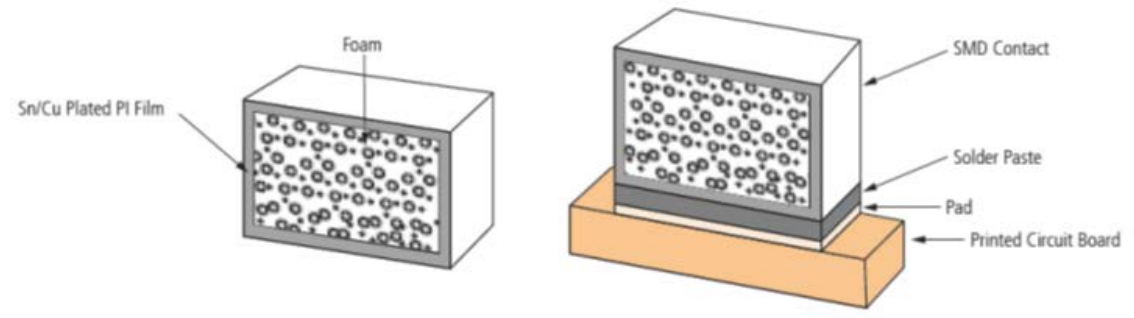
New Product Launch Package

Description:

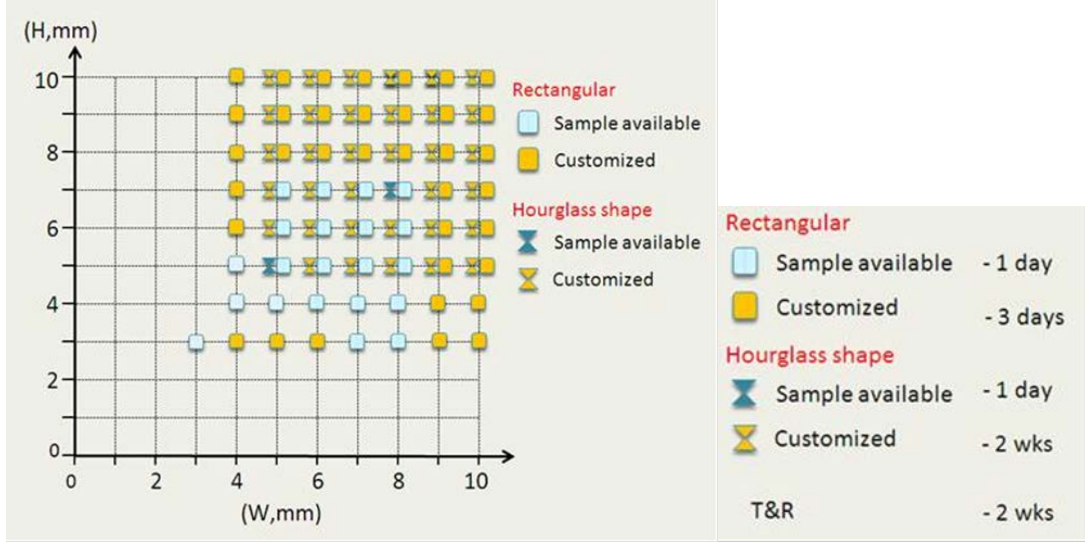
Laird Technologies' SMD (Surface Mount Device) Grounding Contact is a conductive contacts used for circuit grounding of SMT (Surface Mount Technology) devices. These contacts are designed to be solder reflow compatible, and are suitable for automatic processing



Product Composition:



Available Dimensions:

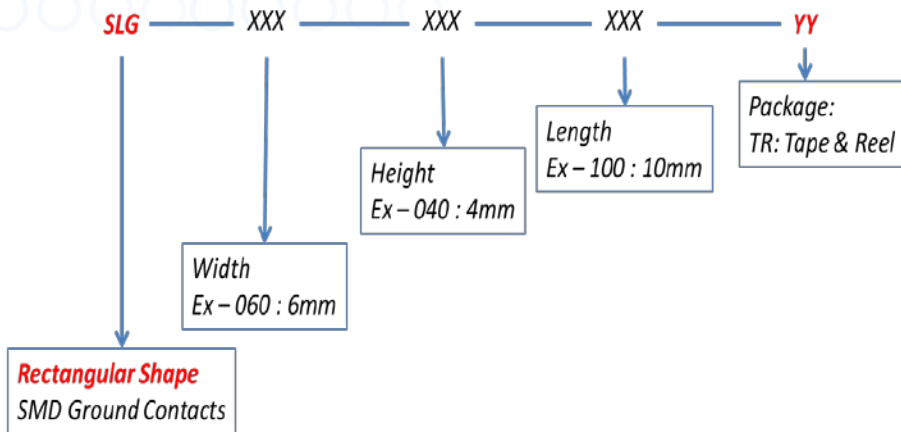


Design Considerations:

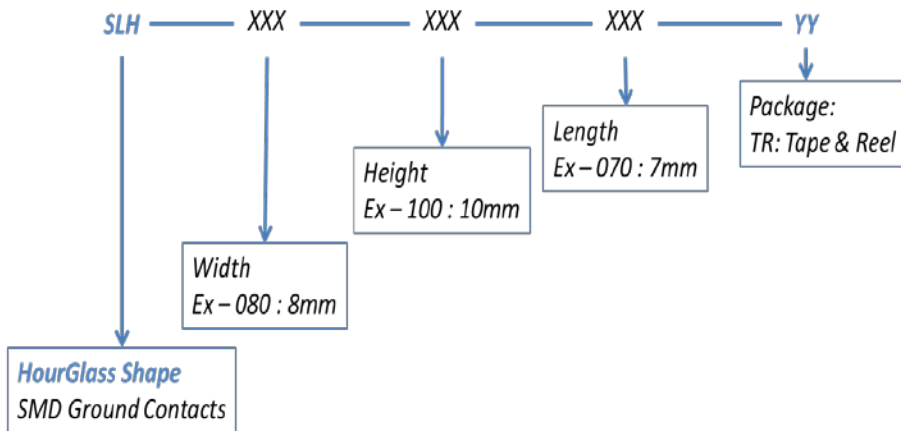
	Hour Glass	Rectangular
Narrow profile under compression	Advantage	
Availability in smaller profiles		Advantage
Stability	Advantage	
Aspect ratio	Advantage	
Tight Board Density	Advantage	
Cost		Advantage



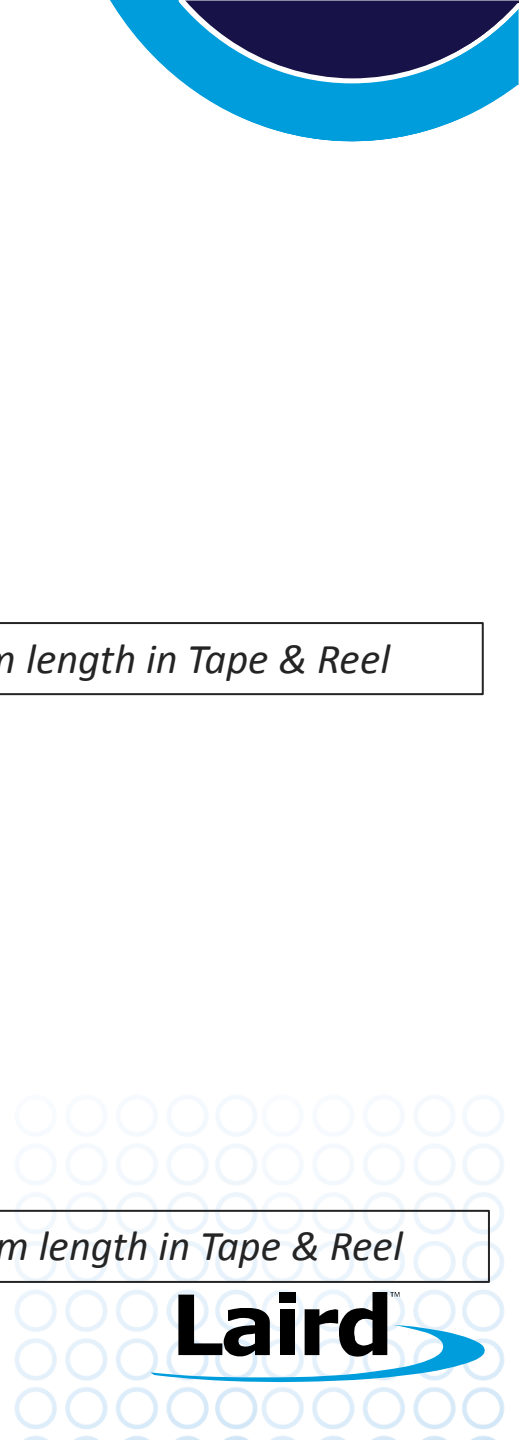
Part Number Structures:



Example: "SLG-060-040-100-TR" rectangle, 6mm width, 4mm height, 10mm length in Tape & Reel



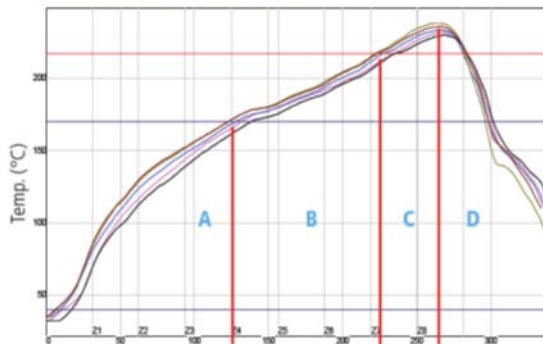
Example: "SLH-080-100-070-TR" hourglass, 8mm width, 10mm height, 7mm length in Tape & Reel



Advantages:

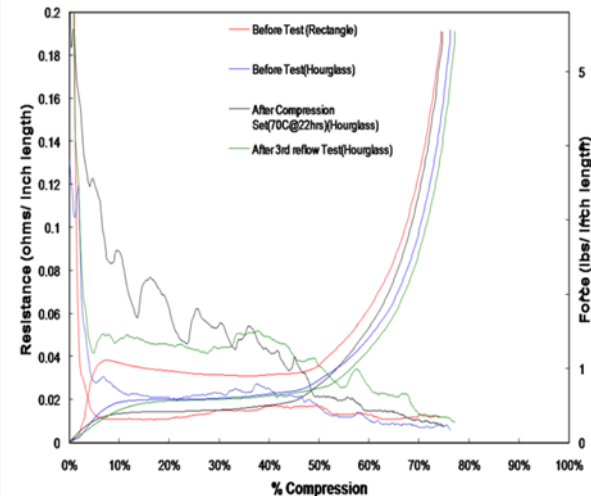
1. Reflow Soldering using SMT processes. (Peak Temp 260C Max)
2. Tape-and-Reel packaging for automatic processing.
3. Multiple solder reflow operations, up to 3 times.
4. Excellent compressibility and Compression Set.
5. Excellent electrical conductivity at low pressure.
6. Board Level grounding contacts without tooling.
7. Repairable
8. Cost competitive to Metal Contacts
9. Covered by Patent (Pending)

TYPICAL REFLOW CONDITIONS



	Temperature Profile		Condition	
		Temperature		Time
A	Preheating Stage	Room Temp. -170°C		125 sec.
B	Heating / Soaking Stage	170-217°C		100 sec.
C	Reflow Stage	217-Peak Temp. (~260°C Max)		50 sec.
D	Cooling Stage	Peak Temp. - Room Temp.		>60 sec.

Force Displacement Graph of 10x10x10mm³ for Hourglass





Technical Data

From Specification Sheet



Item	Unit	Value	Test Method
Z-Axis Resistance			Laird Internal
Before Reflow	Ω	<0.06	
After Reflow	Ω	<0.10	
Flammability	HB	PASS	UL 94*
Solder Adhesion Strength (Gasket to PCB)	kgf	>0.8	Laird Internal
Hardness (Shore A)	durometer	<20	ASTM D 2240
Compression Set	%	<15	ASTM D1056 (70°C, 22 hr)
Operation Temperature	°C	-40° to 70°	
Restricted Substances		RoHS Compliant Halogen Free	

*Passed Laird internal test. Official UL rating is pending.

Technical Data

From MSDS



MATERIAL SAFETY DATA SHEET**SECTION 1 SUBSTANCE/PREPARATION AND COMPANY NAME****Product Name:** Soft SMD Grounding Contacts**Manufacturer:** Laird Technologies**Division:** International Operation**Address:** 3481 Rider Trail South, St. Louis MO 63045**Emergency Phone:** +1-866-928-8181 (Global) or +86-755-2714-1166 (China)**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS No.
Proprietary epoxy resin	Mixture
Polyurethane	9009-54-5
Copper*	7440-50-8
Tin	7440-31-5
Polyimide film	---

*Hazardous chemical(s) under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 3 HAZARDS IDENTIFICATION

Appearance and odor: no odor.

Following our present state of knowledge this product is not classified as a hazardous substance.

SECTION 4 FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene

practices are followed.

Inhalation: Not applicable under normal conditions of use.**Ingestion:** Not specifically applicable**Skin:** Not specifically applicable**Eyes:** Not specifically applicable

In any case, seek medical advice ASAP.

SECTION 5 FIRE-FIGHTING MEASURES**Extinguishing Media:** Carbon dioxide gas, sand/earth, regular foam, water**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skins and eyes.**Unusual Fire Hazards:** Any chemical can be forced to burn by continuous application or intense heat.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leaks and Spills: Sweep up and place into specified containers for disposal.

Large Spillage: Incinerate or landfill in accordance with local state regulation

Protective Equipment: None

SECTION 7 HANDLING AND STORAGE

Handling: Does not require any specific handling procedure.

Storage: Keep away from heat, sparks, and open flame.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: This material does not cause significant eye irritation or eye toxicity requiring special protection.

Use good industrial practice to avoid eye contact

Skin Protection: Avoid skin contact. Consult glove manufacturer to determine appropriate type of glove for given application. Wash contaminated skin promptly. Wash thoroughly after handling.

Respiratory protection: Not needed

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A

Specific Gravity: N/A

Melting Point: N/A

PH: N/A

Solubility in Water: Non-soluble

Decomposition Temperature: N/A

Appearance and Odor: Rubber profile, odorless

Additional Comments: It should be noted that these physical and chemical data are based on typical measurements obtained from tests on the material, but not intended for use as guaranteed analysis of any specific lot or as specifications for the product.

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: Open flame, heat, spark and any other sources of ignition.

Incompatibility (Materials to Avoid): None known.

Hazardous Decomposition Product: Combustion will produce CO₂, CO, or other chemical.

Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation: Processing vapor may be an irritant.

Ingestion: Not known

Skin: Wash immediately with plenty of water if symptoms appear.

Eyes: Sharp off-cuts may cause eye damage.

Long Term Exposure: N/A

SECTION 12 ECOLOGICAL INFORMATION

On the basis of data concerning degradation and bio accumulation, no environmental harm can be ruled out.

SECTION 13 DISPOSAL CONSIDERATIONS

The product can be land filled.

Disposal should be in accordance with local & state regulation

SECTION 14 TRANSPORT INFORMATION

Remarks: Not dangerous by any mode of international transport.

Class: Not dangerous

SECTION 15 REGULATORY INFORMATION

Hazardous Symbol: None

Risk Phrase: May cause sensitization by long-term skin contact.

Safety Phrase: Handle in good industrial hygiene practice.

SECTION 16 OTHER INFORMATION

Use: For general EMI shielding and grounding.

The information given in this Safety Data Sheet is based on our knowledge of the product at the time of publication and is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose than that for which it was intended. It is the sole responsibility of the user to take all precautions in handling the product. We cannot guarantee that the risks referred to above are the only risks present. The final choice of the application of a product is thus the sole responsibility of the user

Sales Person / Presenter Information

Email and contact info.

