 <small>ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®</small>	<b>Material Composition Declaration</b> <small>© Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.</small>	<small>This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.</small> <b>Adobe Reader version 7.0.5 is required to complete this declaration.</b>																																										
<b>1752-2 1.1</b>	IPC Web Site for Information on IPC-1752 Standard <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>	<b>Form Type *</b> Distribute	<b>Declaration Class *</b> Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information																																									
<b>Supplier Information</b>																																												
<b>Company Name *</b> Littelfuse, Inc.	Company Unique ID	Unique ID Authority	<b>Response Date *</b> 2019-06-24	Response Document ID																																								
<b>Contact Name *</b> Lorelie A. Castillo	Title - Contact Global EHS Analyst	<b>Phone - Contact *</b> 043 4300100	<b>Email - Contact *</b> EnvRequests@littelfuse.com																																									
<b>Authorized Representative *</b> Jennilyn D. Santos	Title - Representative Global EHS Supervisor	<b>Phone - Representative *</b> 043 4300100	<b>Email - Representative *</b> EnvRequests@littelfuse.com	Supplier Comments or URL for Additional Information																																								
<table border="1"> <tr> <th data-bbox="34 825 293 854">Requester Item Number</th> <th data-bbox="293 825 553 854">Mfr Item Number</th> <th data-bbox="553 825 813 854">Mfr Item Name</th> <th data-bbox="813 825 943 854">Effective Date</th> <th data-bbox="943 825 1008 854">Version</th> <th data-bbox="1008 825 1203 854">Manufacturing Site</th> <th data-bbox="1203 825 1333 854">Weight *</th> <th data-bbox="1333 825 1430 854">UOM</th> <th data-bbox="1430 825 1589 854">Unit Type</th> </tr> <tr> <td data-bbox="34 854 293 884">CG6230SM</td> <td data-bbox="293 854 553 884">CG6230SM</td> <td data-bbox="553 854 813 884">GP STANDARD S.A. 230V SM</td> <td data-bbox="813 854 943 884"></td> <td data-bbox="943 854 1008 884"></td> <td data-bbox="1008 854 1203 884">China</td> <td data-bbox="1203 854 1333 884">0.242</td> <td data-bbox="1333 854 1430 884">g</td> <td data-bbox="1430 854 1589 884">Each</td> </tr> <tr> <td colspan="9" data-bbox="34 884 1589 917"> <table border="1"> <tr> <td data-bbox="34 884 293 917">Alternate Recommendation</td> <td colspan="8" data-bbox="293 884 1589 917">Alternate Item Comments</td> </tr> </table> </td> </tr> </table>	Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type	CG6230SM	CG6230SM	GP STANDARD S.A. 230V SM			China	0.242	g	Each	<table border="1"> <tr> <td data-bbox="34 884 293 917">Alternate Recommendation</td> <td colspan="8" data-bbox="293 884 1589 917">Alternate Item Comments</td> </tr> </table>									Alternate Recommendation	Alternate Item Comments															
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<b>Manufacturing Process Information</b>																																												
Terminal Plating / Grid Array Material <b>Matte Tin (Sn)</b>	Terminal Base Alloy <b>CU Alloy</b>	J-STD-020 MSL Rating <b>Not Applicable</b>	Peak Process Body Temperature <b>260 C</b>	Max Time at Peak Temperature <b>3 seconds</b>	Number of Reflow Cycles <b>1</b>																																							
Comments <b>Compliant to RoHS Directive (EU) 2015-863.</b>																																												

\* Required Field

CAS Registry Number(R) is a Registered Trademark of the American Chemical Society

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Import fields from a file into this form

Import Data

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RoHS Material Composition Declaration

Declaration Type \*Detailed

RoHS Directive 2002/95/EC

RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.

RoHS Declaration \*

1 - Item(s) does not contain RoHS restricted substances per the definition above

Supplier Acceptance \*


Accepted

Exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.

Declaration Signature

Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.

Supplier Digital Signature



Digitally signed by Lorelie Castillo  
Date: 2019.06.24 14:37:35 +08'00'

Homogeneous Material Composition Declaration for Electronic Products

**SubItem Instructions:** The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

**Substance Instructions:** [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

**Line Functions:** +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

	Item/SubItem Name	Homogeneous Material	Weight	Unit of Measure		Level	Substance Category		Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
														-	+	
	GP STANDARD S.A	Electrode	0.1696	g		Supplier	Fe		Fe	7439-89-6		0.098368	g			
						B	Nickel (external applic		Nickel	7440-02-0		0.071232	g			
		Ceramic	0.0558	g		Supplier	AL2O3		AL2O3	1302-74-5		0.054098	g			
						Supplier	MgO		MgO	1309-48-4		0.000926	g			
						Supplier	SiO2		SiO2	7631-86-9		0.000094	g			
						Supplier	CaO		CaO	1305-78-8		0.000647	g			
						Supplier	Fe2O3		Fe2O3	1309-37-1		0.000033	g			
		Soldering	0.016	g		Supplier	Silver		Silver	7440-22-4		0.00448	g			
						Supplier	Copper		Copper	7440-50-8		0.01152	g			
		Ink	0.0006	g		Supplier	Tribtyl phosphate		Tribtyl phosphate	126-73-8		0.00039	g			
						Supplier	Carbon Black		Carbon Black	1333-86-4		0.00015	g			
						Supplier	Phenol		Phenol	108-95-2		0.00003	g			
						Supplier	Silica,amorphous		Silica,amorphous	1631-86-9		0.00003	g			