_ AS		© Co	terial Compo pyright 2005. IPC, Bannoc ternational and Pan-Ameri	kburn, Illinois	. All rights reserv	ition $ _{wi}$		level	parts, the	declaration	n encompa	isses al		aterials for	which th	e item is an assembly ne manufacturer has leclaration.	
17	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x							Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa						
Sup	plier Information																
Company Name *			Company Unique ID		Unique ID Authority			Response Date *			Re	Response Document ID					
Littelfuse Inc.								2019-06-10									
Contact Name *			Title - Contact		Phone - Contact *			Email - Contact *						-1			
Lya	C. Latoza		Global EHS Analyst		+63 430 0100			EnvRequests@littelfuse.com									
Aut	horized Representati	ve *	re * Title - Representative		Phone - Representat		ve *	Email - Representative * Supplier Comments or URL for Add					ditional Ir	nformation			
Jen	nilyn D. Santos		Global EHS Supervis	sor	er +63 430 0100			EnvRequests@littelfuse.com			e.com						
Requester Item Number			Mfr Item Number	Mfr Item Name		ie		Effecti	ve Date	Version	n Manufacturing Site		Weight *	U	OM	Unit Type	
	Q4010LTTP_TO220L		Q4010LTTP_TO220L		Triac 10A TO220L		2	2004-	01-11		China		2,206.0761607r		g	Each	
	Alternate Recommenda	ation						Alternate Item C		Item Comr	mments				•		
Ма	nufacturing Proces	s In	formation														
Terminal Plating / Grid Array Material Terminal			Terminal B	Base Alloy J-STD-6		020 MSL Rating		Peak Process Body Tempe		Temperatu	perature Max Time at F		Peak Temperature		of Reflow Cycles		
Matte Tin (Sn)				CU Alloy	U Alloy				260 (		<b>260</b> C	30		seconds	1		
	nments	heei	renlaced by Evem	ntion 7(c)	-1 Flectrical	and elect	ronic co	mnon	ents cont	aining le	ad in a d	lass or	ceramic other	than die	lectric c	eramic in canacito	

		Export Data	Import fields from a file into this form	Import Data			Locked
RoHS	Francis Data						
		•	• '	, ,			rominated Biphenyls (PBB),
date that Supplier n Supplier a Supplier a written ag	Supplier completes to may have relied on in grees that, at a mini reement with respec	nis form. Supplier acknowledges formation provided by others in o mum, its suppliers have provided to the identified part, the terms a	s that Company will rely on this co completing this form, and that Suld d certifications regarding their con and conditions of that agreement,	ertification in determining the opplier may not have independ stributions to the part, and those	compliance of its products with European Union member state lently verified such information. However, in situations where se certifications are at least as comprehensive as the certificat	laws that implement the RoHS Supplier has not independently tion in this paragraph. If the Co	Directive. Company acknowledges that verified information provided by others, ampany and the Supplier enter into a
RoHS	Declaration *	4 - Item(s) does not contain R	oHS restricted substances per	the definition above except	for selected exemptions	Supplier Acceptance *	Accepted
			n RoHS restricted substan	ces per the definition at	pove except for defined RoHS exemptions, then s	elect the corresponding	response in the RoHS Declaration
Exemp	tion List Version	n EL-2006/690/EC					
	5. Lead in glass of	cathode ray tubes, electronic of	components and fluorescent tub	pes.			
	7a. Lead in high m	elting temperature type solders	(i.e. lead based solder alloys of	containing 85% by weight or	more lead).		
•							
Decla	aration Signa	ture					
					ccepted" on the Supplier Acceptance drop-do	wn. This will display th	ne signature area. Digitally sign

DN: cn=Lya C. Latoza, o, ou, email=llatoza@littelfuse.com, c=PH Date: 2019.06.10 13:58:09 +08'00'

Supplier Digital Signature Lya C. Latoza

## **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	Homogeneous	Weight	Unit of		Level	Substance Category	Substance	CAS	Evomo	Weight	Unit of	Tolerance		PPM
Name	Material	vveignt	Measure	ure			Gubbiano		Lxempt	weight	Measure	-	+	FFIV
Triac 10A TO220L	Heatsink/Lead fr	1,570.24	mg		Supplier	CuFeP	Copper (Cu)	7440-50-8		1,567.26	mg			
							Iron (Fe)	7439-89-6		2.355370	mg			
							Phosphorus (P)	7723-14-0		0.628098	mg			
	Outside Lead Fir	49.1666	emg		Supplier	Tin (Sn)	Tin (Sn)	7440-31-5		49.16666	mg			
	Die attach (Solde	2.542	mg		Supplier	(F367SN3-90M3)	Tin (Sn)	7440-31-5		0.066092	mg			
							Rosin	65997-05-9		0.15252	mg			
							Other	SYSTEM		0.061008	mg			
					A	Lead/Lead Compound	Lead	7439-92-1	7a. Lead	2.26238	mg			890,0
	Die attach (Solde	1.916	mg		Supplier	(Pb92.5Sn5Ag2.5)	Tin (Sn)	7440-31-5		0.0958	mg			
							Sliver	7440-22-4		0.0479	mg			
					A	Lead/Lead Compound	Lead	7439-92-1	7a. Lead	1.7723	mg			925,0
	Chip	9.29732	1mg		Supplier	Silicon (Si)	Silicon (Si)	7440-21-3		9.039642	mg			
					В	Nickel (external applic	Nickel	7440-02-0		0.257678	mg			
	Chip Passivation	0.40741	lmg		Supplier	SiO2	SiO2	7631-86-9		0.203705	mg			
					Supplier	PbO	PbO	1317-36-8	5. Lead in	0.181071	mg			444,4
					Supplier	AI2O3	AI2O3	1344-28-1		0.004526	mg			
					Supplier	Boron	Boron	7440-42-8		0.005613	mg			
					Supplier	Oxygen	Oxygen	7782-44-7		0.012493	mg			
	Ceramic Substra	76.6666	lmg		Supplier	Ceramic	AI2O3	1344-28-1		70.955	mg			
							Misc., not to declare	SYSTEM		5.711666	mg			
	Molding Compo	495.833	mg		Supplier	Moulding Compound	Epoxy Cresol Novolac	29690-82-2		74.375	mg			
							Phenol Novoloac	9003-35-4		24.79166	mg			
							Metal hydroxide	SYSTEM		74.375	mg			
							•		•	•	•			

<sup>\*</sup> Required Field

Carbon black	1333-86-4	4.958333	mg		
Silica Fused	60676-86-0	317.3333	mg		