Material Composition Declaration

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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.

Adobe Reader version 7.0.5 is required to complete this declaration.

1752-2 1.1	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 Informat

Supplier Information

Company Name *	Company Unique ID	Unique ID Authority	**Response Date ***	Response Document ID	
Venkel Ltd.			**2019-04-26**		
Contact Name *	Title - Contact	**Phone - Contact ***	**Email - Contact ***	Duplicate Contact -> Authorized Representative	
Nelson Johnson		**512-794-0081**	**nelson@venkel.com**		
Authorized Representative *	Title - Representative	**Phone - Representative ***	**Email - Representative** *	Supplier Comments or URL for Additional Information	
Nelson Johnson		**512-794-0081**	**nelson@venkel.com**		

Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	**Weight ***	UOM	Unit Type
TAXXXTCRXXXXAR	TAXXXTCRXXXXAR	Low ESR Tantalum Capacitors				58.6	mg	Each

Alternate Recommendation				Alternate Item Comments	

Manufacturing Process Information

Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature	Max Time at Peak Temperature	Number of Reflow Cycles
Matte Tin (Sn) - with Nickel (Ni) barrier	**Not Applicable**	**1**	**260** C	**10** seconds	**2**

Comments

*** Required Field**

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Save the fields in this form to a file	Export Data	Import fields from a file into this form	Import Data	Clear all of the fields on this form	Reset Form	Lock the fields on this form to prevent changes	Lock Supplier Fields

RoHS Material Composition Declaration

Declaration Type * **Custom**

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

Venkel Ltd. hereby declares and certifies that all resistive components manufactured are RoHS 5/6 compliant with RoHS Recast (RoHS2) according to the definitions and restrictions given by the Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE).Our components do not contain any of the substances listed in Annex II for the exception of lead which is allowed by exemption 7 (c)-I which states: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezolectronic devices, or in a glass or ceramic matrix compound

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	Nelson Johnson	Digitally signed by Nelson Johnson Date: 2019.04.26 10:26:37 -05'00'	

*** Required Field**

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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
															-	+	
+I -I	TAXXXTCRXXXXAF	+M -M	Tantalum Anode	24.4772	mg	+C -C	Supplier	Tantalum	+S -S	Tantalum	7440-22-4		8.9658	mg			
						+C -C	Supplier	Manganese	+S -S	Manganese	7439-96-5		4.9107	mg			
						+C -C	Supplier	Silver	+S -S	Silver	7440-22-4		6.2995	mg			
						+C -C	Supplier	Oxygen	+S -S	Oxygen	7782-44-7		2.8948	mg			
						+C -C	Supplier	Carbon	+S -S	Carbon	7440-44-0		1.2716	mg			
						+C -C	Supplier	Flourine	+S -S	Flourine	7782-41-4		0.1055	mg			
						+C -C	Supplier	Misc.	+S -S	Misc.	proprietary		0.0293	mg			
		+M -M	Leadframe	13.6011	mg	+C -C	Supplier	Copper	+S -S	Copper	7440-50-8		7.8524	mg			
						+C -C	B	Nickel (external applic	+S -S	Nickel	7440-02-0		2.3323	mg			
						+C -C	Supplier	Zinc	+S -S	Zinc	7440-66-6		2.0862	mg			
						+C -C	Supplier	Tin	+S -S	Tin	7440-31-5		1.2247	mg			
						+C -C	Supplier	Iron	+S -S	Iron	7439-89-6		0.0293	mg			
						+C -C	Supplier	Misc.	+S -S	Misc.	proprietary		0.0762	mg			
		+M -M	Molding case	20.5217	mg	+C -C	Supplier	Oxygen	+S -S	Oxygen	7782-44-7		8.7841	mg			
						+C -C	Supplier	Silicon	+S -S	Silicon	7440-21-3		6.7976	mg			
						+C -C	Supplier	Carbon	+S -S	Carbon	7440-44-0		4.102	mg			
						+C -C	Supplier	Iron	+S -S	Iron	7439-89-6		0.1582	mg			
						+C -C	Supplier	Misc.	+S -S	Misc.	proprietary		0.6798	mg			

*** Required Field**

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