



# 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 <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat
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## Supplier Information

<b>Company Name *</b> AVX CORPORATION	Company Unique ID 05-889-5921	Unique ID Authority Dun & Bradstreet	<b>Response Date *</b> 2010-04-05	Response Document ID				
<b>Contact Name *</b> Dennis Oldland	Title - Contact corporate env. mgr	<b>Phone - Contact *</b> 18439460241	<b>Email - Contact *</b> doldland@avxus.com	Duplicate Contact -> Authorized Representative				
<b>Authorized Representative *</b> Dennis Oldland	Title - Representative corporate env. mgr	<b>Phone - Representative *</b> 18439460241	<b>Email - Representative *</b> doldland@avxus.com	Supplier Comments or URL for Additional Information				
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	<b>Weight *</b>	UOM	Unit Type
					Lanskroun, CZ	531.4	mg	Each
Alternate Recommendation	TPSE with copper termination		2003-01-01	Alternate Item Comments	Family data sheets encompass request			

## Manufacturing Process Information

Terminal Plating / Grid Array Material <b>Matte Tin (Sn) - with Nickel (Ni) barrier</b>	Terminal Base Alloy <b>CU Alloy</b>	J-STD-020 MSL Rating <b>1</b>	Peak Process Body Temperature <b>260 C</b>	Max Time at Peak Temperature <b>10 seconds</b>	Number of Reflow Cycles <b>3</b>
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Comments

Save the fields in this form to a file

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Lock Supplier Fields

## 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

## 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

+I	-I	Item/SubItem Name	+M	-M	Homogeneous Material	Weight	Unit of Measure	+C	-C	Level	Substance Category	+S	-S	Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
																			-	+	
		TPS E case			moulding mass	186.47	mg			Supplier	resin			epoxy resin	129915-35-1		55.94	mg	50	50	300,00
										Supplier	silica			fused silica	60676-86-0		130.53	mg	50	50	700,00
					anode body	300.865	mg			Supplier	tantalum			tantalum oxide	1314-61-0		249.5	mg	50	50	816,62
										Supplier	tantalum wire			tantalum wire	7440-25-7		3.04	mg	50	50	25,062
										Supplier	cathode			MnO2	1313-13-9		47.156	mg	50	50	154,34
										Supplier	barrier			graphite	7782-42-5		1.098	mg	50	50	3,604
										Supplier	moisture barrier			polymethylhyd	63148-62-9		0.05	mg	50	50	169
										Supplier	wire protection			teflon	9002-84-0		0.022	mg	50	50	198
					silver layer	7	mg			Supplier	silver			silver particles	7440-22-4		6.636	mg	50	50	948,33
										Supplier	resin			bisphenol A-(e	25068-38-6		0.364	mg	50	50	51,667
					silver paste	0.718	mg			Supplier	silver			silver particles	7440-22-4		0.619	mg	50	50	861,70
										Supplier	epoxy			epoxy resin, B	68610-73-1		0.099	mg	50	50	138,29
					termination base	33.889	mg			Supplier	nickel			Ni	7440-02-0		0.881	mg	50	50	25,997
										Supplier	copper			Cu	7440-50-8		32.127	mg	50	50	948,00
										Supplier	iron			Fe	7439-89-6		0.881	mg	50	50	25,997
					termination plati	2.458	mg			Supplier	tin			Sn	7440-31-5		2.356	mg	50	50	957,69
										Supplier	nickel			Ni	7440-02-0		0.051	mg	50	50	21,154
										Supplier	silver			Ag	7440-22-4		0.051	mg	50	50	21,154