



Material Composition Declaration

© Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.

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 * Anaren Microwave	Company Unique ID	Unique ID Authority	Response Date * 2021-05-20	Response Document ID				
Contact Name * Herbert Jones	Title - Contact Project Engineer	Phone - Contact * 315-233-5510	Email - Contact * herbert.jones@ttm.com	Duplicate Contact -> Authorized Representative				
Authorized Representative * Herbert Jones	Title - Representative Project Engineer	Phone - Representative * 315-233-5510	Email - Representative * herbert.jones@ttm.com	Supplier Comments or URL for Additional Information				
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
	C6N50Z4		2021-05-20	A	East Syracuse	0.002895	g	Each
Alternate Recommendation				Alternate Item Comments				

Manufacturing Process Information

Terminal Plating / Grid Array Material Matte Tin (Sn) - with Nickel (Ni) barrier	Terminal Base Alloy Other	J-STD-020 MSL Rating 1	Peak Process Body Temperature 260 C	Max Time at Peak Temperature 30 seconds	Number of Reflow Cycles 3
---	------------------------------	---------------------------	--	--	------------------------------

Comments
Compliant to RoHS 2 Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 & Commission Delegated Directive 2015/863/EU of 31 March 2015.

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 *

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

		Item/SubItem Name	Homogeneous Material		Weight	Unit of Measure	Level		Substance Category	Substance		CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
+I	-I		+M	-M			+C	-C		+S	-S					-	+	
		C6N50Z4			0.000003g				Supplier	Part Marking Ink		Titanium dioxide (TiO2)	13463-67-7		0.000002g			857,10
									Supplier	Part Marking Ink		Silica amorphous (SiO2)	7631-86-9		0.000000g			142,90
					0.000136g				Supplier	Protective Polymer		*Proprietary Metal Com	Proprietary		0.000013g			100,00
									Supplier	Protective Polymer		*Proprietary Blue Pigme	Proprietary		0.000027g			200,00
									Supplier	Protective Polymer		Cobalt (Co)	7440-48-4		0.000041g			300,00
									Supplier	Protective Polymer		Molybdenum (Mo)	7439-98-7		0.000054g			400,00
					0.000064g				Supplier	Protective Glaze		Boron Oxide (BO)	1303-86-2		0.000013g			214,30
									Supplier	Protective Glaze		Aluminum Oxide (Al2O3)	1344-28-1		0.000004g			64,300
									Supplier	Protective Glaze		Silicon Dioxide (SiO2)	14808-60-7		0.000004g			64,300
									Supplier	Protective Glaze		Chromium(III) oxide (Cr	1308-38-9		0.000000g			14,200
									Supplier	Protective Glaze		Zinc oxide (ZnO)	1314-13-2		0.000041g			642,90
					0.000041g				Supplier	Thick Film Resistor		Boron Oxide (BO)	1303-86-2		0.000005g			134,60
									Supplier	Thick Film Resistor		Magnesium Oxide (MgO)	1309-48-4		0.000004g			96,200
									Supplier	Thick Film Resistor		Aluminum Oxide (Al2O3)	1344-28-1		0.000005g			134,60
									Supplier	Thick Film Resistor		Silicon Dioxide (SiO2)	14808-60-7		0.000002g			51,300
									Supplier	Thick Film Resistor		Ruthenium(IV) dioxide (12036-10-1		0.000020g			493,60
									Supplier	Thick Film Resistor		Zinc oxide (ZnO)	1314-13-2		0.000003g			89,700
					0.000210g				Supplier	Conductor		Silver (Ag)	7440-22-4		0.000191g			910,00
									Supplier	Conductor		Cobalt (Co)	7440-48-4		0.000003g			15,000
									Supplier	Conductor		Titanium (Ti)	7440-32-6		0.000015g			75,000
					0.002252g				Supplier	Substrate		Aluminum Nitride (ALN)	24304-00-5		0.002140g			950,00
									Supplier	Substrate		Yttrium (III) oxide (Y2O3)	1314-36-9		0.000112g			50,000
					0.000153g			A		Lead/Lead Compound		Lead	7439-92-1		0.000000g			499.75

					+C	-C	B	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.000153g			999,50
+M	-M	Tin Plating	0.000031g		+C	-C	Supplier	Tin Plating	+S	-S	Tin (Sn)	7440-31-5		0.000031g			1,000,0