



# 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

Company Name * Anaren Microwave	Company Unique ID	Unique ID Authority	Response Date * 2020-04-09	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
	XR10AA30SES	Surface Mount Attenuator	2020-04-09	A	East Syracuse	0.02368	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
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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

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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

RoHS 2 (Directive 2011/65/EU & 2015/863/EU) Definition Addendum: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).

Supplier certifies that it gathered the information it provides in this form concerning RoHS restrictive substances 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.

**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		XR10AA30SES	+M	-M	Part Marking Ink	0.000025g	+C	-C	Supplier	Part Marking Ink	+S	-S	Titanium dioxide (TiO2)	13463-67-7		0.000022g			857,10
								+C	-C	Supplier	Part Marking Ink	+S	-S	Silica amorphous (SiO2)	7631-86-9		0.000003g			142,90
		+M	-M	Protective Glaze	0.000812g	+C	-C	Supplier	Protective Glaze	+S	-S	Boron Oxide (BO)	1303-86-2		0.000057g				71,261	
						+C	-C	Supplier	Protective Glaze	+S	-S	Aluminum Oxide (Al2O3)	1344-28-1		0.000017g				21,381	
						+C	-C	Supplier	Protective Glaze	+S	-S	Silicon Dioxide (SiO2)	14808-60-7		0.000017g				21,381	
						+C	-C	Supplier	Protective Glaze	+S	-S	*Proprietary Metal Com	Proprietary		0.000054g				66,746	
						+C	-C	Supplier	Protective Glaze	+S	-S	*Proprietary Blue Pigme	Proprietary		0.000108g				133,49	
						+C	-C	Supplier	Protective Glaze	+S	-S	Chromium(III) oxide (Cr	1308-38-9		0.000003g				4,721.9	
						+C	-C	Supplier	Protective Glaze	+S	-S	Cobalt (Co)	7440-48-4		0.000162g				200,24	
						+C	-C	Supplier	Protective Glaze	+S	-S	Molybdenum (Mo)	7439-98-7		0.000216g				266,98	
						+C	-C	Supplier	Protective Glaze	+S	-S	Zinc oxide (ZnO)	1314-13-2		0.000173g				213,78	
		+M	-M	Thick Film Resis	0.000156g	+C	-C	Supplier	Thick Film Resistor	+S	-S	Boron Oxide (BO)	1303-86-2		0.000021g				134,60	
						+C	-C	Supplier	Thick Film Resistor	+S	-S	Magnesium Oxide (MgO)	1309-48-4		0.000015g				96,200	
						+C	-C	Supplier	Thick Film Resistor	+S	-S	Aluminum Oxide (Al2O3)	1344-28-1		0.000021g				134,60	
						+C	-C	Supplier	Thick Film Resistor	+S	-S	Silicon Dioxide (SiO2)	14808-60-7		0.000008g				51,300	
						+C	-C	Supplier	Thick Film Resistor	+S	-S	Ruthenium(IV) dioxide (	12036-10-1		0.000077g				493,60	
						+C	-C	Supplier	Thick Film Resistor	+S	-S	Zinc oxide (ZnO)	1314-13-2		0.000014g				89,700	
		+M	-M	Conductor	0.001127g	+C	-C	Supplier	Conductor	+S	-S	Silver (Ag)	7440-22-4		0.001026g				910,00	
						+C	-C	Supplier	Conductor	+S	-S	Cobalt (Co)	7440-48-4		0.000016g				15,000	
						+C	-C	Supplier	Conductor	+S	-S	Titanium (Ti)	7440-32-6		0.000084g				75,000	
		+M	-M	Substrate	0.021125g	+C	-C	Supplier	Substrate	+S	-S	Aluminum Nitride (ALN)	24304-00-5		0.020069g				950,00	
						+C	-C	Supplier	Substrate	+S	-S	Yttrium (III) oxide (Y2O3)	1314-36-9		0.001056g				50,000	
		+M	-M	Nickel Plating	0.000330g	+C	-C	A	Lead/Lead Compound	+S	-S	Lead	7439-92-1		0.000000g				499.75	

					+C	-C	B	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.000329g			999,50
+M	-M	Tin Plating	0.000102g		+C	-C	Supplier	Tin Plating	+S	-S	Tin (Sn)	7440-31-5		0.000102g			1,000,0