



# 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 * 2018-05-25	Response Document ID				
Contact Name * Casey Hennigan	Title - Contact Project Engineer	Phone - Contact * 315-432-8909	Email - Contact * casey.hennigan@anaren.com	Duplicate Contact -> Authorized Representative				
Authorized Representative * Casey Hennigan	Title - Representative Project Engineer	Phone - Representative * 315-432-8909	Email - Representative * casey.hennigan@anaren.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
	BD1416N50100AHF	0404 Balun, 50-100 ohm	2018-05-25	A	East Syracuse	0.00171	g	Each
Alternate Recommendation				Alternate Item Comments				

## Manufacturing Process Information

Terminal Plating / Grid Array Material Nickel/Gold (Ni/Au) - ENIG	Terminal Base Alloy CU Alloy	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 Directive 2011/65/EU and 2015/863**

Save the fields in this form to a file

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Import Data

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Lock Supplier Fields

## RoHS Material Composition Declaration

Declaration Type \*

Simplified

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

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

+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
																			-	+	
		BD1416N50100AHF			External Copper	0.000053g				Supplier				Copper (Cu)	7440-50-8		0.000053g				1,000,0
					External Dielectr	0.000024g				Supplier				Phenoxy Resin	25068-38-6		0.000001g				46,788
										Supplier				Epoxy Resin	25085-99-8		0.000001g				67,937
										Supplier				Alkoxy Silane	2530-83-8		0.000000g				2,494
										Supplier				Bispenol A diacyanate	025722-66-1		0.000006g				264,36
										Supplier				Silica Fused (SiO2)	60676-86-0		0.000011g				487,53
										Supplier				Proprietary/Unknown	Proprietary		0.000000g				2,594
										Supplier				Non-Bromine Flame Re	Proprietary		0.000003g				128,29
					Internal Copper	0.000251g				Supplier				Copper (Cu)	7440-50-8		0.000251g				1,000,0
					Internal Dielectri	0.000939g				Supplier				Silica Fused (SiO2)	60676-86-0		0.000203g				216,59
										Supplier				Polytetrafluoroethylene	9002-84-0		0.000353g				376,38
										Supplier				Proprietary/Unknown	Proprietary		0.000013g				14,498
										Supplier				Ceramic Filler	Proprietary		0.000369g				392,51
					CIC	0.00042 g				Supplier				Iron (Fe)	7439-89-6		0.000194g				462,63
										Supplier				Magnanese (Mn)	7439-96-5		0.000001g				3,559
										B	Nickel (external applic			Nickel	7440-02-0		0.000108g				258,00
										Supplier				Copper (Cu)	7440-50-8		0.000116g				275,80
					Nickel Plating	0.000018g				A	Lead/Lead Compound			Lead	7439-92-1		0.000000g				500
										B	Nickel (external applic			Nickel	7440-02-0		0.000018g				999,50
					Gold Plating	0.000000g				Supplier				Gold (Au)	7440-57-5		0.000000g				1,000,0