



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
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Supplier Information

Company Name * Anaren Microwave	Company Unique ID	Unique ID Authority	Response Date * 2022-03-25	Response Document ID				
Contact Name * Gulsen Gungor	Title - Contact Project Engineer	Phone - Contact * 315-233-5510	Email - Contact * Gulsen.Gungor@ttm.com	Duplicate Contact -> Authorized Representative				
Authorized Representative * Gulsen Gungor	Title - Representative Project Engineer	Phone - Representative * 315-233-5510	Email - Representative * Gulsen.Gungor@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
	X4C55J1-03G	90° Hybrid Coupler	2022-03-25	A	East Syracuse	0.0047652	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 2 Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and Commission Delegated Directive 2015/863/EU of 31 March 2015.

Save the fields in this form to a file

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Clear all of the fields on this form

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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 and 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		+M	-M			+C	-C		+S	-S					-	+		
+I	-I	X4C55J1-03G Rev A	+M	-M	External Copper	0.000108g	+C	-C	Supplier	Copper (Cu)	+S	-S	Copper (Cu)	7440-50-8		0.000108g			1,000,0
			+M	-M	Internal Copper	0.001029g	+C	-C	Supplier	Copper (Cu)	+S	-S	Copper (Cu)	7440-50-8		0.001029g			1,000,0
			+M	-M	CIC	0.000931g	+C	-C	Supplier	Iron (Fe)	+S	-S	Iron (Fe)	7439-89-6		0.000430g			462,63
							+C	-C	Supplier	Magnanese (Mn)	+S	-S	Magnanese (Mn)	7439-96-5		0.000003g			3,559
							+C	-C	B	Nickel (Ni)	+S	-S	Nickel (Ni)	7440-02-0		0.000240g			258,00
							+C	-C	Supplier	Copper (Cu)	+S	-S	Copper (Cu)	7440-50-8		0.000256g			275,80
			+M	-M	External Dielectr	0.000438g	+C	-C	Supplier	Tri-allyl-isocyanurate	+S	-S	Tri-allyl-isocyanurate	1025-15-6		0.000054g			123,00
							+C	-C	Supplier	Initiator	+S	-S	Initiator	1068-27-5		0.000003g			8,600
							+C	-C	Supplier	Silica Fused (SiO2)	+S	-S	Silica Fused (SiO2)	60676-86-0		0.000232g			530,00
							+C	-C	Supplier	Elastomer	+S	-S	Elastomer	9003-55-8		0.000022g			51,900
						+C	-C	Supplier	Poly-phenylene oxide	+S	-S	Poly-phenylene oxide	92-71-7		0.000125g			286,50	
		+M	-M	Internal Dielectri	0.002226g	+C	-C	Supplier	Silica Fused (SiO2)	+S	-S	Silica Fused (SiO2)	60676-86-0		0.001097g			493,00	
						+C	-C	Supplier	Polytetrafluoroethyle	+S	-S	Polytetrafluoroethylene	9002-84-0		0.001055g			474,00	
						+C	-C	Supplier	Proprietary/Unknown	+S	-S	Proprietary/Unknown	Proprietary		0.000073g			33,000	
		+M	-M	Gold Plating	0.000001g	+C	-C	Supplier	Gold (Au)	+S	-S	Gold (Au)	7440-57-5		0.000001g			1,000,0	
		+M	-M	Nickel Plating	0.000029g	+C	-C	B	Nickel (Ni)	+S	-S	Nickel (Ni)	7440-02-0		0.000029g			999,50	