	© Co	terial Compo pyright 2005. IPC, Bannoc aternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	arts, the	declaratio	n encomp	asses all lo		erials for	which th	item is an assembly e manufacturer has eclaration.		
1/32-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x						n Type * ribute			aration Class * s 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa						
Supplier Information																
Company Name * Company Unique ID				Unique ID Authority			nse Date	*	R	Response Document ID						
Anaren Microwave		·			2019-0	08-30										
Contact Name * Title - Contact		Phone - Contact *			Email - Contact *				5 "	•	0 1					
Gulsen Gungor		Project Engineer		315-432-8909		gulsen.gungor@ttm.com			m	Duplicat	e Contact	-> Autho	rized Re	presentative		
Authorized Representative *		Title - Representative	Э	Phone - Representative *		Email - Representative *			* S	Supplier Comments or URL for Additional Information						
Gulsen Gungor		Project Engineer		315-432-8909		gulsen.gungor@ttm.com			m							
Requester Item Number		Mfr Item Number		Mfr Item Name	Effectiv	e Date	Version Manuf		acturing Site Weight *		UOM		Unit Type			
		X4C45J1-03G		Ultra Low Pro	ofile 0805 3dB Hyb 2019		-08-30 A		East Syr	acuse	0.005	g		Each		
Alternate Recommendate	tion				Alternate Item C			Item Com	ments				•			
Manufacturing Proces	s In	formation								_						
Terminal Plating / Grid Array Material Termi		Terminal Ba	Base Alloy J-STD-020 MSL R		iting Peak Process Body Tempe		Temperat	ure Max Tim	e at Peak Tem	perature	Number o	of Reflow Cycles				
Nickel/Gold (Ni/Au) - ENIG CU Alle			CU Alloy			260				30 s	econds	econds 3				
Comments					1					1						
Compliant to RoHS 2 Dire	ectiv	e 2011/65/EU of the	European	Parliament a	and of the Counc	il of 8	June 201	1 & Com	mission	Delegated	Directive 20	15/863/E	U of 31	March 2015.		

Save the fields in Import fields from a Clear all of the Lock the fields on this **Export Data** Import Data Reset Form Lock Supplier Fields this form to a file file into this form fields on this form form to prevent changes **RoHS Material Composition Declaration Declaration Type *** Custom Rohs Directive Rohs Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenvls (PBB). Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium 2002/95/EC 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. Supplier Acceptance * Accepted 1 - Item(s) does not contain RoHS restricted substances per the definition above **RoHS Declaration *** 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

Subltem 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 Homogeneous Weight Unit of		Level	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
Name Material Weight Measure											-	+	PPIVI
+I -I X4C45J1-03G +M -M External Copper 0.000112g	+C -C	Supplier	External Copper Plat	+S	-S	Copper (Cu)	7440-50-8		0.000112	g			1,000,0
+M -M External Dielectr 0.000568g	+C -C	Supplier	External Dielectric	+S	-S	Tri-allyl-isocyanurate	1025-15-6		0.000030	g		;	52,901
	+C -C	Supplier	External Dielectric	+S	-S	Initiator	1068-27-5		0.000002	g		;	3,698.7
	+C -C	Supplier	External Dielectric	+S	-S	Silica Fused (SiO2)	60676-86-0		0.000289	g		;	508,91
	+C -C	Supplier	External Dielectric	+S	-S	Polytetrafluoroethylene	9002-84-0		0.000153	g			270,13
	+C -C	Supplier	External Dielectric	+S	-S	Elastomer	9003-55-8		0.000012	g			22,321
	+C -C	Supplier	External Dielectric	+S	-S	Poly-phenylene oxide	92-71-7		0.000070	g			123,22
	+C -C	Supplier	External Dielectric	+S	-S	Proprietary/Unknown	Proprietary		0.000010	g			18,806
+M -M Internal Copper 0.001910g	+C -C	Supplier	Internal Copper	+S	-S	Iron (Fe)	7439-89-6		0.000478	g		:	250,36
	+C -C	Supplier	Internal Copper	+S	-S	Magnanese (Mn)	7439-96-5		0.000003	g			1,926.0
	+C -C	В	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.00026	g			139,62
	+C -C	В	Arsenic/Arsenic Comp	+S	-S	Arsenic	7440-38-2		0.00000	g			81.592
	+C -C	Supplier	Internal Copper	+S	-S	Chromium (Cr) (non-he	7440-47-3		0.000000	g			12.601
	+C -C	Supplier	Internal Copper	+S	-S	Copper (Cu)	7440-50-8		0.001161	g			607,85
	+C -C	Supplier	Internal Copper	+S	-S	Zinc (Zn)	7440-66-6		0.000000	g			125.38
	+C -C	Supplier	Internal Copper	+S	-S	Chromium (Cr) (hexava	18540-29-9		0	g			0.1575
+M -M Internal Dielectri 0.002367g	+C -C	Supplier	Internal Dielectric	+S	-S	Silica Fused (SiO2)	60676-86-0		0.001166	g			493,00
	+C -C	Supplier	Internal Dielectric	+S	-S	Polytetrafluoroethylene	9002-84-0		0.001121	g			474,00
	+C -C	Supplier	Internal Dielectric	+S	-S	Proprietary/Unknown	Proprietary		0.000078	g			33,000
+M -M Nickel Plating 0.000030g	+C -C	A	Lead/Lead Compound	+S	-S	Lead	7439-92-1		0.00000	g			499.75
	+C -C	В	Nickel (external applic	+S	-s	Nickel	7440-02-0		0.00003	g			999,50
+M -M Gold Plating 0.00001 g	+C -C	Supplier	Gold Plating	+S	-S	Gold (Au)	7440-57-5		0.000011	g			1,000,0