C	Aterial Compo Copyright 2005. IPC, Bannoc th international and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lowe	er level	oarts, the	declaratio	on encom	npasses al		aterials fo	r which t	ie item is an assembly he manufacturer has declaration.		
1/32-2 1.1	C Web Site for Informat		-1752 Standa	Ird	Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa							
Supplier Information															
Company Name * Anaren Microwave				onse Date 03-22	e *	ſ	Response Document ID								
Contact Name *     Title - Contact       Gulsen Gungor     Project Engineer			Phone - Contact *			Email - Contact * Gulsen.Gungor@ttm.com			Duplicate Contact -> Authorized Representative						
Authorized Representative Gulsen Gungor	<ul> <li>* Title - Representative</li> <li>Project Engineer</li> </ul>	9	Phone - Rep 315-233-551		Email - Representative * Su Gulsen.Gungor@ttm.com				comments or U	RL for Ad	ditional I	nformation			
Requester Item Number	Mfr Item Number	Mfr Item Number		Mfr Item Name			Version	Manufa	cturing Site	Weight '	· U	ОМ	Unit Type		
	X4C20J1-03G			90° Hybrid Coupler			A	East Syracuse		0.00817	89 g		Each		
Alternate Recommendation	วท					Alternate Iten			mments						
Manufacturing Process	Information								·						
Terminal Plating / Grid Array Ma	aterial	Terminal B	ase Alloy	J-STD-020 MSL F	Rating	Peak Proc	cess Body	Tempera	ature Max	Time at Peak Te	mperature	Number	of Reflow Cycles		
Nickel/Gold (Ni/Au) - ENIG CU Alloy			1			260			<b>30</b> seco			3			
Comments Compliant to RoHS 2 Direct	tive 2011/65/EU of the	Europear	n Parliament	and of the Coun	cil of 8	June 201	1 and Co	ommiss	ion Deleg	ated Directive	e 2015/86	3/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 chang	Look Cumpling Fields					
RoHS Material Composition Declaration Declaration Type * Custom												
RoHS Directive 2002/95/ECRoHS 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												
(DIBP). Supplier certifies that the date that Supplier complet that Supplier may have relied others, Supplier agrees that, a a written agreement with resp	it gathered the information it pro tes this form. Supplier acknowler on information provided by othe at a minimum, its suppliers have ect to the identified part, the tern	vides in this form concerning RoH dges that Company will rely on this rs in completing this form, and that	S restrictive substances using s certification in determining th t Supplier may not have indep heir contributions to the part, a nt, including any warranty righ	appropriate methods to ensu- ne compliance of its products rendently verified such inform and those certifications are at	re its accuracy and that such inf with European Union member st ation. However, in situations whe least as comprehensive as the c	formation is true and correct to the tate laws that implement the RoHS ere Supplier has not independentl certification in this paragraph. If th	e Company and the Supplier enter into					
RoHS Declaration *	1 - Item(s) does not contain F	RoHS restricted substances per t	the definition above			Supplier Acceptance * A	ccepted					
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 Signa	iture											

## 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		Tolerance		PPM	
	Name		Material	lioigin	Measure			_010.					0,10	Exempt	lioigin	Measure	-	+	
+  -	X4C20J1-03G Rev A	+M -N		0.000927	g	+C -	-C :	Supplier	Iron (Fe)	+S	-S	Iron (Fe)	7439-89-6		0.000429	g			462,63
						+C	-C :	Supplier	Magnanese (Mn)	+S	-S	Magnanese (Mn)	7439-96-5		0.000003	g			3,559
						+C ·	-C	В	Nickel (Ni)	+S	-s	Nickel (Ni)	7440-02-0		0.000239	g			258,00
						+C ·	-C :	Supplier	Copper (Cu)	+S	-S	Copper (Cu)	7440-50-8		0.000255	g	ĺ		275,80
		+M -N	External Copper	0.00010	g	+C -	-C :	Supplier	Copper (Cu)	+S	-s	Copper (Cu)	7440-50-8		0.000109	g			1,000,0
		+M -N	External Dielect	r 0.000439	g	+C -	-C :	Supplier	Tri-allyl-isocyanurate	+S	-S	Tri-allyl-isocyanurate	1025-15-6		0.000054	g			123,00
						+C ·	-C :	Supplier	Initiator	+S	-S	Initiator	1068-27-5		0.000003	g			8,600
						+C ·	-C :	Supplier	Silica Fused (SiO2)	+S	-S	Silica Fused (SiO2)	60676-86-0		0.000232	g			530,00
						+C ·	-C :	Supplier	Elastomer	+S	-S	Elastomer	9003-55-8		0.000022	g			51,900
						+C ·	-C :	Supplier	Poly-phenylene oxide	+S	-S	Poly-phenylene oxide	92-71-7		0.000125	g			286,50
		+M -N	Gold Plating	0.00000	g	+C -	-C :	Supplier	Gold (Au)	+S	-S	Gold (Au)	7440-57-5		0.000001	g			1,000,0
		+M -N	Internal Copper	0.00096	ig	+C -	-C :	Supplier	Copper (Cu)	+S	-S	Copper (Cu)	7440-50-8		0.000965	g			1,000,0
		+M -N	Internal Dielectri	i 0.005598	g	+C -	-C (	Supplier	Tri-allyl-isocyanurate	+S	-S	Tri-allyl-isocyanurate	1025-15-6		0.000000	g			106
						+C ·	-C :	Supplier	Silica Fused (SiO2)	+S	-S	Silica Fused (SiO2)	60676-86-0		0.000002	g			457
						+C	-C :	Supplier	Polytetrafluoroethyle	+S	-S	Polytetrafluoroethylene	9002-84-0		0.001677	g			299,64
						+C	-C :	Supplier	Elastomer	+S	-S	Elastomer	9003-55-8		0.000000	g			45
						+C	-C :	Supplier	Poly-phenylene oxide	+S	-S	Poly-phenylene oxide	92-71-7		0.000001	g			247
						+C	-C :	Supplier	Ceramic Filler	+S	-S	Ceramic Filler	Proprietary		0.003916	g			699,49
		+M -N	Nickel Plating	0.00003	lg	+C -	-C [	В	Nickel (Ni)	+S	-S	Nickel (Ni)	7440-02-0		0.000030	g			999,50
		+M -N	/ Via	0.000107	g	+C	-C :	Supplier	Copper (Cu)	+S	-S	Copper (Cu)	7440-50-8		0.000107	g			1,000,0