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1752-2 1.1	rd		m Type * ribute	-		ration Class * 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inform									
Supplier Information															
Company Name *		Company Unique ID		Unique ID Au	ıthority	Respo	onse Date	*	Re	sponse Dod	cument ID				
Anaren Microwave						2020-	09-08								
Contact Name * Title - Contact				Phone - Con	tact *	Email	- Contac	t *		D li 4	- 011	A 4 la . a			
Herbert Jones	Project Engineer		315-233-5510		herbert.jones@ttm.com			n	Duplicate Contact -> Authorized Representative						
Authorized Representat	Title - Representative		Phone - Representative *		Email - Representative *			* Su	Supplier Comments or URL for Additional Information						
Herbert Jones		Project Engineer		315-233-551	0	herbe	rt.jones@	ttm.com	ո						
Requester Item Number		Mfr Item Number		Mfr Item Name)	Effectiv	ve Date	Version	Manufactu	ring Site Weight *		UC	OM	Unit Type	
		C05N50Z4	Termination		2020-0	09-08	A	Suzhou, 0	, China 0.00063		g		Each		
Alternate Recommend	lation					Alternate I			Item Comments						
Manufacturing Proce	ss In	formation													
Terminal Plating / Grid Array Material Termina			Terminal B	ase Alloy	J-STD-020 MSL R	ating	g Peak Process Body Ten		Temperature Max Ti		Time at Peak Temperature		Number of Reflow Cycles		
Matte Tin (Sn) - with Nickel (Ni) barrier Other			Other		1			2	260 C	30 s		econds 3			
Comments Compliant to RoHS 2 Di	rectiv	re 2011/65/EU of the	Europear	n Parliament a	and of the Coun	cil of 8	June 201	1 & Com	mission I	Delegated I	Directive 20	15/863/E	EU 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			ral .	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Toleranc		DDM
	Name		Material	weight	Measure		Lev	vei				Substance					-	+	PPM
+1 -1	C05N50Z4	+M -M	Part Marking Ink	0.00000	1g	+C -C	Sup	plier	Part Marking Ink	+S	-S	Titanium dioxide (TiO2)	13463-67-7		0.000001	g		8	857,10
						+C -0	Sup	plier	Part Marking Ink	+S	-S	Silica amorphous (SiO2	7631-86-9		0.000000	g		1	142,90
		+M -M	Protective Glaze	0.00003	4 g	+C -C	Sup	plier	Protective Glaze	+S	-S	Boron Oxide (BO)	1303-86-2		0.000002	g		f	63,147
						+C -0	Sup	plier	Protective Glaze	+S	-s	Aluminum Oxide (Al2O3	1344-28-1		0.000000	g		1	18,947
						+C -0	Sup	plier	Protective Glaze	+S	-s	Silicon Dioxide (SiO2)	14808-60-7		0.000000	g		1	18,947
						+C -0	Sup	plier	Protective Glaze	+S	-s	*Proprietary Metal Com	Proprietary		0.000002	g		7	70,532
						+C -0	Sup	plier	Protective Glaze	+S	-s	*Proprietary Blue Pigme	Proprietary		0.000004	g		1	141,06
						+C -0	Sup	plier	Protective Glaze	+S	-s	Chromium(III) oxide (Cr	1308-38-9		0.000000	g			4,184.3
						+C -0	Sup	plier	Protective Glaze	+S	-s	Cobalt (Co)	7440-48-4		0.000007	g		- 2	211,59
						+C -0	Sup	plier	Protective Glaze	+S	-s	Molybdenum (Mo)	7439-98-7		0.000009	g		- 2	282,13
						+C -0	Sup	plier	Protective Glaze	+S	-s	Zinc oxide (ZnO)	1314-13-2		0.000006	g		1	189,44
		+M -M	Conductor	0.000084	4g	+C -C	Sup	plier	Conductor	+S	-s	Silver (Ag)	7440-22-4		0.000077	g		ć	910,00
						+C -0	Sup	plier	Conductor	+S	-s	Cobalt (Co)	7440-48-4		0.000001	g		1	15,000
						+C -0	Sup	plier	Conductor	+S	-s	Titanium (Ti)	7440-32-6		0.000006	g		7	75,000
		+M -M	Substrate	0.00048	7 g	+C -C	Sup	plier	Substrate	+S	-s	Aluminum Nitride (ALN	24304-00-5		0.000463	g		ć	950,00
						+C -0	Sup	plier	Substrate	+S	-S	Yttrium (III) oxide (Y2O3	1314-36-9		0.000024	g		Ę	50,000
		+M -M	Nickel Plating	0.000014	4 g	+C -C	A		Lead/Lead Compound	+S	-S	Lead	7439-92-1		0.000000	g			499.75
						+C -0	В		Nickel (external applic	+S	-s	Nickel	7440-02-0		0.000014	g			999,50
		+M -M	Tin Plating	0.000004	4 g	+C -C	Sup	plier	Tin Plating	+S	-S	Tin (Sn)	7440-31-5		0.000004	g		1	1,000,0
		+M -M	Thick Film Resis	0.000004	4 g	+C -C	Sup	plier	Thick Film Resistor	+S	-S	Boron Oxide (BO)	1303-86-2		0.000000	g		1	134,60
						+C -0	Sup	plier	Thick Film Resistor	+S	-S	Magnesium Oxide (MgO	1309-48-4		0.000000	g		į	96,200
						+C -0	Sup	plier	Thick Film Resistor	+S	-S	Aluminum Oxide (Al2O3	1344-28-1		0.000000	g		1	134,60
						+C -C	Sup	plier	Thick Film Resistor	+S	-S	Silicon Dioxide (SiO2)	14808-60-7		0.000000	g		ţ	51,300

+C	-C	Supplier	Thick Film Resistor	+S	-S	Ruthenium(IV) dioxide (12036-10-1	0.000002	g		493,60
+C	ا ا	Supplier	Thick Film Resistor	+S	-S	Zinc oxide (ZnO)	1314-13-2	0.000000	g		89,700