	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	r level p	arts, the	declarati	on enco	mpasses	all lower		rials for	which th	e item is an assembly e manufacturer has eclaration.
	_	Web Site for Informat		Form Type * Declaration Class * Distribute Class 6 - RoHS Yes/No, Homogeneous Ma						/laterials	and Mfg Informa				
Supplier Information															
Company Name *		Company Unique ID		Unique ID Au	uthority	Respo	onse Date	<b>*</b>		Respon	se Docur	ment ID			
Anaren Microwave						2022-	03-30								
Contact Name * Title - Contact				Phone - Contact *			- Contac	t *					A .1		1
Herbert Jones Project Engineer				315-233-5510			Herbert.Jones@ttm.com				uplicate	Contact -:	> Autho	rized Re	presentative
Authorized Representative * Title - Representative			е	Phone - Representative *			Email - Representative *				Supplier Comments or URL for Additional Information				
Herbert Jones Project Engineer				315-233-5510			Herbert.Jones@ttm.com								
Requester Item Number		Mfr Item Number		Mfr Item Name	)	Effectiv	e Date	Version Manuf		acturing S	Site	Weight *	UC	M	Unit Type
		E150N50X4		Termination	2022-0	2022-03-30 A East S			yracuse		0.4208694	g		Each	
Alternate Recommenda	ation					Alternate Item C			omments					•	
Manufacturing Proces	s In	formation													
Terminal Plating / Grid Array Material Terminal B			ase Alloy	e Alloy J-STD-020 MSL Rating			ting Peak Process Body Tempe			ax Time at	t Peak Temp	erature	Number	of Reflow Cycles	
Matte Tin (Sn) - with Nickel (Ni) barrier Silver (A			g)	1				<b>260</b> C	;		<b>30</b> sec	conds	3		
Comments					1					I					
Compliant to RoHS 2 Dire	ectiv	e 2011/65/EU of the	Europear	Parliament	and of the Coun	cil of 8	June 201	1 and C	ommis	sion Del	legated [	Directive 2	015/863	3/EU of 3	1 March 2015.

Save the fields in this form to a file	Export Data	Import fields from a file into this form		Clear all of the fields on this form	Reset Form	Lock the fields on this form to prevent changes	Lock Supplier Fields					
RoHS Material Co	mposition Declaratio	n				Declaration Type *	Custom					
		nit of 0.1% by mass (1000 PPM) ers (PBDE) and quantity limit of 0					ated Biphenyls (PBB),					
DIBP). Supplier certifies that is a date that Supplier complet at Supplier may have relied thers, Supplier agrees that, a written agreement with response.	it gathered the information it provices this form. Supplier acknowledgon information provided by others it a minimum, its suppliers have prect to the identified part, the terms	dendum: Quantity limit of 0.1% by mass (100 des in this form concerning RoHS restrictive es that Company will rely on this certification in completing this form, and that Supplier movided certifications regarding their contribuand conditions of that agreement, including the Supplier provides in this form.	substances using a n in determining the nay not have indeper tions to the part, and	appropriate methods to ensur compliance of its products windently verified such informated those certifications are at I	re its accuracy and that such info with European Union member station. However, in situations whe least as comprehensive as the c	ormation is true and correct to the best ate laws that implement the RoHS Dire are Supplier has not independently veriful ertification in this paragraph. If the Con	of its knowledge and belief, as of ctive. Company acknowledges fied information provided by npany and the Supplier enter into					
RoHS Declaration *	1 - Item(s) does not contain Ro	HS restricted substances per the definition	on above			Supplier Acceptance * Accep	oted					
<b>exemptions:</b> If the declease and choose all ap		RoHS restricted substances per th	ne definition abo	ve except for defined	RoHS exemptions, then so	elect the corresponding respon-	se in the RoHS Declaration					
Declaration Signa	Declaration Signature											
nstructions: Comple	ete all of the required fie	lds on all pages of this form. S	elect the "Acce	epted" on the Suppli	er Acceptance drop-do	wn. This will display the sigr	nature 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 - Deletes the element line

Item/SubItem		Homogeneous	Weight	Unit of		Laura	Substance Catemany			Cubatanaa	CAS		Weight	Unit of	Tolerand	e DDM
Name		Material	weight	Measure		Level	Substance Category			Substance	CAS	Exempt		Measure	- +	PPM
+I -I E150N50X4 Rev A	+M -M	Substrate	0.39648	<b>5</b> g	+C -	Suppli	r Yttrium (III) oxide (Y2	+S	-S	Yttrium (III) oxide (Y2O3	1314-36-9		0.010156	g		25,616
					+C -	Suppli	r Aluminum Oxide (Al2	+S	-S	Aluminum Oxide (Al2O3	1344-28-1		0.185623	g		468,17
					+C -	Suppli	r Aluminum Nitride (Al	+S	-s	Aluminum Nitride (ALN	24304-00-5		0.192971	g		486,70
					+C -	Suppli	r Proprietary/Unknown	+S	-S	Proprietary/Unknown	Proprietary		0.007734	g		19,507
	+M -M	Conductor	0.00340	<b>3</b> g	+C -	Suppli	r Silver (Ag)	+S	-S	Silver (Ag)	7440-22-4		0.003096	g		910,00
					+C -	Suppli	r Titanium (Ti)	+S	-S	Titanium (Ti)	7440-32-6		0.000255	g		75,000
					+C -	Suppli	r Cobalt (Co)	+S	-S	Cobalt (Co)	7440-48-4		0.000051	g		15,000
	+M -M	Thick Film Resis	0.00124	<b>6</b> g	+C -	Suppli	r Ruthenium(IV) dioxid	+S	-S	Ruthenium(IV) dioxide (	12036-10-1		0.000615	g		493,60
					+C -	Suppli	r Boron Oxide (BO)	+S	-S	Boron Oxide (BO)	1303-86-2		0.000167	g		134,60
					+C -	Suppli	r Magnesium Oxide (M	+S	-S	Magnesium Oxide (MgO	1309-48-4		0.000119	g		96,200
					+C -	Suppli	r Zinc oxide (ZnO)	+S	-S	Zinc oxide (ZnO)	1314-13-2		0.000111	g		89,700
					+C -	Suppli	r Aluminum Oxide (Al2	+S	-s	Aluminum Oxide (Al2O3	1344-28-1		0.000167	g		134,60
					+C -	Suppli	r Silicon Dioxide (SiO2	+S	-S	Silicon Dioxide (SiO2)	14808-60-7		0.000064	g		51,300
	+M -M	Protective Glaze	0.00402	<b>7</b> g	+C -	Suppli	r Boron Oxide (BO)	+S	-S	Boron Oxide (BO)	1303-86-2		0.000296	g		73,638
					+C -	Suppli	r Chromium(III) oxide (	+S	-S	Chromium(III) oxide (Cr	1308-38-9		0.000019	g		4,879
					+C -	Suppli	r Zinc oxide (ZnO)	+S	-S	Zinc oxide (ZnO)	1314-13-2		0.000889	g		220,91
					+C -	Suppli	r Aluminum Oxide (Al2	+S	-S	Aluminum Oxide (Al2O3	1344-28-1		0.000089	g		22,095
					+C -	Suppli	r Silicon Dioxide (SiO2	+S	-S	Silicon Dioxide (SiO2)	14808-60-7		0.000089	g		22,095
					+C -	Suppli	r Molybdenum (Mo)	+S	-S	Molybdenum (Mo)	7439-98-7		0.001057	g		262,55
					+C -	Suppli	r Cobalt (Co)	+S	-S	Cobalt (Co)	7440-48-4		0.000793	g		196,91
					+C -	Suppli	r *Proprietary Blue Pig	+S	-s	*Proprietary Blue Pigme	Proprietary		0.000528	g		131,27
					+C -	Suppli	r *Proprietary Metal Co	+S	-S	*Proprietary Metal Com	Proprietary		0.000264	g		65,638
	+M -M	Flange	0.01291	<b>4</b> g	+C -	Suppli	r Silver (Ag)	+S	-S	Silver (Ag)	7440-22-4		0.012914	g		1,000,0

+M -M Part Marking Ink	0.00003 <b>0</b> g	+C	-C Supplier	Titanium dioxide (TiO	+S	-S	Titanium dioxide (TiO2)	13463-67-7	0.000026g	857,10
		+C	-C Supplier	Silica amorphous (Si	+S	-S	Silica amorphous (SiO2	7631-86-9	0.000004g	142,90
+M -M Tin Plating	0.000811g	+C	-C A	Lead (Pb)	+S	-S	Lead (Pb)	7439-92-1	0.00000g	71
	·	+C	-C Supplier	Tin (Sn)	+S	-S	Tin (Sn)	7440-31-5	0.000811g	999,92
+M -M Nickel Plating	0.00195 <b>0</b> g	+C	-С в	Nickel (Ni)	+S	-s	Nickel (Ni)	7440-02-0	0.001950g	1,000,0