	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level pa	arts, the	declaratio	n encom	passes a		vel mate	erials for	which th	eitem is an assembly e manufacturer had eclaration.
1/32-2 1.1		Web Site for Informat	71				ation Class * 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat								
Supplier Information															
Company Name * Company Unique ID				Unique ID Au	Response Date *			F	Response Document ID						
Anaren Microwave				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			2020-05-07			•					
Contact Name * Title - Contact				Phone - Contact *			Email - Contact *								
Sarvesh Nair Project Engineer				315-233-5510			Sarvesh.Nair@ttm.com								
Authorized Representative * Title - Representative				Phone - Rep	Email - Representative *			* 8	Supplier Comments or URL for Additional Information						
Sarvesh Nair Project Engineer			-			Sarvesh.Nair@ttm.com									
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date Ve		Version	ion Manufactu		te We	eight *	UC	M	Unit Type
	D10AA10Z4			Surface Mour	nt Attenuator, 10W	2020-0	5-07	С	East Sy	racuse	0.0	334063	3 g		Each
Alternate Recommenda	ation				Alternate Item Co			nments			<u> </u>				
Manufacturing Proces	ss In	formation													
Terminal Plating / Grid Array Material Terminal B			ase Alloy J-STD-020 MSL Ra		ting Peak Process Body Tempe		Tempera	ture Max	x Time at Pe	ak Temp	perature	Number	of Reflow Cycles		
Matte Tin (Sn) - with Nickel (Ni) barrier Other			-	1		260		260 C				conds		•	
Comments						!				'					
Compliant to RoHS 2 Dir	ectiv	e 2011/65/EU of the	European	Parliament	and of the Counc	il of 8 J	une 201	1 & Com	nmissior	n Delega	ated Direct	tive 201	5/863/E	U of 31	March 2015.

	he fields in rm to a file	Export Data	Import fields from a file into this form	Import Data				Locked
RoHS	Material Co	mposition Declaration	า				Declaration Type *	Detailed
		Definition: Quantity lim rominated Diphenyl Ethe					valent Chromium, Polybromii Cadmium	nated Biphenyls (PBB),
nromium excess of the inform till rely or orm, and egarding that agree	, polybrominated bip an applicable quanti ation it provides in th this certification in c that Supplier may no their contributions to ment, including any	nenyls and/or polybrominated diph ty limit, please indicate below which is form using appropriate methods determining the compliance of its p thave independently verified such the part, and those certifications a	enyl ethers (each a "RoHS r h, if any, RoHS exemption yo to ensure its accuracy and t roducts with European Unior i information. However, in siture at least as comprehensive ovided as part of that agreen	estricted substance") in exces ou believe may apply. If the pa that such information is true ar n member state laws that imple uations where Supplier has no e as the certification in this par nent, will be the sole and exclu-	s of the applicable quantity limit irt is an assembly with lower leve d correct to the best of its knowlement the RoHS Directive. Comput independently verified informat agraph. If the Company and the usive source of the Supplier's lial	identified above. If a homogeneral components, the declaration ledge and belief, as of the date pany acknowledges that Supplition provided by others, Supplier enter into a written agbility and the Company's remediations.	dentified on this form contains lead, me eous material within the part contains a shall encompass all such components that Supplier completes this form. Supier may have relied on information prover agrees that, at a minimum, its suppligreement with respect to the identified dies for issues that arise regarding information.	RoHS restricted substance in . Supplier certifies that it gathered oplier acknowledges that Company rided by others in completing this ers have provided certifications part, the terms and conditions of
RoHS	Declaration *	4 - Item(s) does not contain Rol	HS restricted substances pe	er the definition above excep	t for selected exemptions		Supplier Acceptance * Acce	pted
		ared item does not contain plicable exemptions.	RoHS restricted substa	ances per the definition a	above except for defined I	RoHS exemptions, then s	select the corresponding respor	nse in the RoHS Declaration
Exemp	tion List Version	n EL-2006/690/EC						
	7c. Lead in electror	ic ceramic parts (e.g. piezoelect	ronic devices).					

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	1.	Level	Substance Category	Substance	CAS	Exempt	Weight	Unit of	Tolerance		PPM
Name		Material	vveignt	Measure	L			Substance				Measure	-	+	FFIVI
D10AA10Z4		Substrate	0.03153	2 g	Su	upplier	Substrate	Aluminum Oxide (Al2O3	1344-28-1		0.030271	g		٥	960,00
•	•	•			Su	upplier	Substrate	Proprietary/Unknown	Proprietary		0.001261	g		4	40,000
		Conductor	0.00065	3 g	Su	upplier	Conductor	Silver (Ag)	7440-22-4		0.000522	g		8	800,00
			•		Su	upplier	Conductor	Lead Containing Glass	65997-18-4		0.000130	g		2	200,00
		Thick Film Resis	0.00012	8 g	Su	upplier	Thick Film Resistor	Silver (Ag)	7440-22-4		0.000012	g		ç	99,120
			•		Su	upplier	Thick Film Resistor	Ruthenium(IV) dioxide (12036-10-1		0.000018	g		,	146,44
					Su	upplier	Thick Film Resistor	Palladium (Pd)	7440-05-3		0.000004	g		;	35,790
					Su	upplier	Thick Film Resistor	Lead Containing Glass	65997-18-4		0.000092	g		7	718,65
		Protective Glaze	0.00019	7 g	Su	upplier	Protective Glaze	Proprietary/Unknown	Proprietary		0.000005	g		2	26,000
			•		Su	upplier	Protective Glaze	Chromium(III) oxide (Cr	1308-38-9		0.000002	g			14,700
					Su	upplier	Protective Glaze	Lead Containing Glass	65997-18-4		0.000189	g		9	959,30
		Protective Polyn	n0.00046	2 g	Su	upplier	Protective Polymer	*Proprietary Metal Com	Proprietary		0.000046	g		1	100,00
			•		Su	upplier	Protective Polymer	*Proprietary Blue Pigme	Proprietary		0.000092	g		2	200,00
					Su	upplier	Protective Polymer	Cobalt (Co)	7440-48-4		0.000138	g		;	300,00
					Su	upplier	Protective Polymer	Molybdenum (Mo)	7439-98-7		0.000185	g		4	400,00
		Part Marking Ink	0.00000	3 g	Su	upplier	Part Marking Ink	Titanium dioxide (TiO2)	13463-67-7		0.000003	g		8	857,10
			•		Su	upplier	Part Marking Ink	Silica amorphous (SiO2	7631-86-9		0.000000	g			142,90
		Nickel Plating	0.00030	2 g	А		Lead/Lead Compound	Lead	7439-92-1		0.000000	g			499.7
			•		В		Nickel (external applic	Nickel	7440-02-0		0.000301	g		!	999,5
		Tin Plating	0.00012	5g	Su	upplier	Tin Plating	Tin (Sn)	7440-31-5		0.000125	g		Ì	1,000,