	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserve	tion with lower	level p	arts, the	declaratio	on encompa	asses all lo		erials for	which th	e item is an assembly ne manufacturer has leclaration.
1/32-2 .		Web Site for Informat		-1752 Standa	rd		Form Type * Declaration Class * Distribute Class 6 - RoHS Yes/No, Homogeneous Materials					and Mfg Informa		
Supplier Information														
Company Name *		Company Unique ID		Unique ID Au	Response Date *			Re	Response Document ID					
Anaren Microwave							5-07			•				
Contact Name * Title - Contact			Phone - Con	Email - Contact *										
Sarvesh Nair Project Engineer				315-233-551	Sarvesh.Nair@ttm.com			n						
Authorized Representative * Title - Representative			Э	Phone - Rep	Email - Representative *			* Su	Supplier Comments or URL for Additional Information					
Sarvesh Nair		Project Engineer		315-233-5510		Sarvesh.Nair@ttm.com			n					
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date Ver		Version	Manufactu	ring Site	Weight *	UC	OM	Unit Type
	D10AA7Z4		Surface Mour	2020-0)-05-07 C East (East Syra	Syracuse 0.0334063		3 g		Each		
Alternate Recommenda	ation					Alternate Item Co			nents		10		•	
Manufacturing Proces	s In	formation												
Terminal Plating / Grid Array N	Materi	ial	Terminal B	ase Alloy	J-STD-020 MSL Ra	ating	Peak Proc	ess Body	Temperatu	re Max Tim	e at Peak Tem	perature	Number	of Reflow Cycles
Matte Tin (Sn) - with Nickel (Ni) barrier Other			1			260		260 C	; 30 sec		econds	3		
Comments 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	nmission	Delegated	Directive 20	15/863/E	EU 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 form, 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 pot 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. Comp it 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 Name		Homogeneous	Weight	Unit of		Level	Substance Category	Substance	CAS	Exempt	Weight	OTHE OF	Tolerance		PPM
			Material		Measure	•							Measure	-	+	1 1 1
	D10AA7Z4		Substrate	0.03153	2 g		Supplier	Substrate	Aluminum Oxide (Al2O3	1344-28-1		0.030271	g		!	960,00
							Supplier	Substrate	Proprietary/Unknown	Proprietary		0.001261	g			40,000
			Conductor	0.00065	3 g		Supplier	Conductor	Silver (Ag)	7440-22-4		0.000522	g			800,00
							Supplier	Conductor	Lead Containing Glass	65997-18-4		0.000130	g			200,00
			Thick Film Resis	0.00012	8 g		Supplier	Thick Film Resistor	Silver (Ag)	7440-22-4		0.000012	g			99,120
							Supplier	Thick Film Resistor	Ruthenium(IV) dioxide (12036-10-1		0.000018	g			146,44
							Supplier	Thick Film Resistor	Palladium (Pd)	7440-05-3		0.000004	g			35,790
							Supplier	Thick Film Resistor	Lead Containing Glass	65997-18-4		0.000092	g		ı	718,65
			Protective Glaze	0.00019	7 g		Supplier	Protective Glaze	Proprietary/Unknown	Proprietary		0.000005	g			26,000
							Supplier	Protective Glaze	Chromium(III) oxide (Cr	1308-38-9		0.000002	g			14,700
							Supplier	Protective Glaze	Lead Containing Glass	65997-18-4		0.000189	g			959,30
			Protective Polyn	0.00046	2 g		Supplier	Protective Polymer	*Proprietary Metal Com	Proprietary		0.000046	g			100,00
							Supplier	Protective Polymer	*Proprietary Blue Pigme	Proprietary		0.000092	g			200,00
							Supplier	Protective Polymer	Cobalt (Co)	7440-48-4		0.000138	g			300,00
							Supplier	Protective Polymer	Molybdenum (Mo)	7439-98-7		0.000185	g			400,00
			Part Marking Ink	0.00000	3 g		Supplier	Part Marking Ink	Titanium dioxide (TiO2)	13463-67-7		0.000003	g			857,10
							Supplier	Part Marking Ink	Silica amorphous (SiO2	7631-86-9		0.000000	g			142,90
			Nickel Plating	0.00030	2g		A	Lead/Lead Compound	Lead	7439-92-1		0.000000	g			499.75
							В	Nickel (external applic	Nickel	7440-02-0		0.00030	g			999,50
			Tin Plating	0.00012	5g		Supplier	Tin Plating	Tin (Sn)	7440-31-5		0.000125	g			1,000,0