



Material Content Data Sheet



Sales Product Name				XMC4700-E196K2048 AA		Issued		20. July 2018	
MA#				MA001496046					
Package				PG-LFBGA-196-2		Weight*		1102.49 mg	
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip	inorganic material	silicon	7440-21-3	15.227	1.38	1.38	13811	13811	
wire	noble metal	palladium	7440-05-3	0.009	0.00		8		
	non noble metal	copper	7440-50-8	0.896	0.08	0.08	813	821	
encapsulation	organic material	carbon black	1333-86-4	0.373	0.03		339		
	plastics	epoxy resin	-	25.757	2.34		23363		
	inorganic material	silicondioxide	60676-86-0	160.517	14.56	16.93	145594	169296	
substrate	inorganic material	aluminiumhydroxide	21645-51-2	30.271	2.75		27457		
	plastics	epoxy bismaleimide triazine resin	-	34.756	3.15		31524		
	non noble metal	copper	7440-50-8	42.726	3.88		38754		
	inorganic material	glass fibre	-	47.088	4.27	14.05	42711	140446	
plating	noble metal	gold	7440-57-5	0.067	0.01		61		
	non noble metal	nickel	7440-02-0	0.183	0.02	0.03	166	227	
solderball	noble metal	silver	7440-22-4	25.965	2.36		23551		
	non noble metal	tin	7440-31-5	715.897	64.92	67.28	649344	672895	
glue	plastics	epoxy resin	-	0.690	0.06		626		
	noble metal	silver	7440-22-4	2.071	0.19	0.25	1878	2504	
*deviation	< 10%					Sum in total:	100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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