



## Material Content Data Sheet



<b>Sales Product Name</b>				XMC4700-E196K2048 AA		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA001496046					
<b>Package</b>				PG-LFBGA-196-2		<b>Weight*</b>		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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