



Material Content Data Sheet



Sales Product Name				XMC1302-Q040X0200 AB		Issued		20. July 2018	
MA#				MA001401136					
Package				PG-VQFN-40-13		Weight*		69.36 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	1.634	2.36	2.36	23563	23563	
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.01		135		
	non noble metal	zinc	7440-66-6	0.037	0.05		539		
	non noble metal	iron	7439-89-6	0.748	1.08		10784		
wire	non noble metal	copper	7440-50-8	30.371	43.78	44.92	437893	449351	
	noble metal	palladium	7440-05-3	0.003	0.00		40		
	non noble metal	copper	7440-50-8	0.274	0.40	0.40	3951	3991	
encapsulation	organic material	carbon black	1333-86-4	0.103	0.15		1486		
	plastics	epoxy resin	-	5.392	7.77		77748		
	inorganic material	silicondioxide	60676-86-0	28.851	41.60	49.52	415976	495210	
leadfinish	noble metal	gold	7440-57-5	0.012	0.02		180		
	noble metal	palladium	7440-05-3	0.012	0.02		180		
	noble metal	silver	7440-22-4	0.012	0.02		180		
	non noble metal	nickel	7440-02-0	0.586	0.84	0.90	8447	8987	
plating	noble metal	palladium	7440-05-3	0.014	0.02		201		
	noble metal	silver	7440-22-4	0.014	0.02		201		
	noble metal	gold	7440-57-5	0.014	0.02		201		
	non noble metal	nickel	7440-02-0	0.656	0.95	1.01	9463	10066	
glue	plastics	bismaleimide resin	-	0.123	0.18		1766		
	noble metal	silver	7440-22-4	0.490	0.71	0.89	7066	8832	
*deviation	< 10%		Sum in total:			100.00		1000000	

Important Remarks:

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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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