



Material Content Data Sheet



Sales Product Name				XMC1302-Q024X0032 AB		Issued		25. September 2017	
MA#				MA001389532					
Package				PG-VQFN-24-19		Weight*		42.52 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	3.84	3.84	38433	38433	
leadframe	inorganic material	phosphorus	7723-14-0	0.005	0.01		124		
	non noble metal	zinc	7440-66-6	0.021	0.05		498		
	non noble metal	iron	7439-89-6	0.423	1.00		9953		
wire	non noble metal	copper	7440-50-8	17.185	40.41	41.47	404132	414707	
	noble metal	palladium	7440-05-3	0.001	0.00		33		
	non noble metal	copper	7440-50-8	0.141	0.33	0.33	3314	3347	
encapsulation	organic material	carbon black	1333-86-4	0.065	0.15		1537		
	plastics	epoxy resin	-	3.420	8.04		80429		
	inorganic material	silicondioxide	60676-86-0	18.298	43.06	51.25	430318	512284	
leadfinish	noble metal	gold	7440-57-5	0.006	0.01		149		
	noble metal	palladium	7440-05-3	0.006	0.01		149		
	noble metal	silver	7440-22-4	0.006	0.01		149		
	non noble metal	nickel	7440-02-0	0.298	0.70	0.73	7017	7464	
plating	noble metal	palladium	7440-05-3	0.008	0.02		187		
	noble metal	silver	7440-22-4	0.008	0.02		187		
	noble metal	gold	7440-57-5	0.008	0.02		187		
	non noble metal	nickel	7440-02-0	0.374	0.88	0.94	8799	9360	
glue	plastics	bismaleimide resin	-	0.123	0.29		2881		
	noble metal	silver	7440-22-4	0.490	1.15	1.44	11524	14405	
*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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