



Material Content Data Sheet



Sales Product Name				XMC1302-Q024X0016 AB		Issued		23. January 2018	
MA#				MA001467474					
Package				PG-VQFN-24-19		Weight*		42.45 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	3.85	3.85	38498	38498	
leadframe	inorganic material	phosphorus	7723-14-0	0.005	0.01		125		
	non noble metal	zinc	7440-66-6	0.021	0.05		498		
	non noble metal	iron	7439-89-6	0.423	1.00		9970		
wire	non noble metal	copper	7440-50-8	17.185	40.48	41.54	404820	415413	
	noble metal	palladium	7440-05-3	0.001	0.00		34		
	non noble metal	copper	7440-50-8	0.141	0.33	0.33	3320	3354	
encapsulation	organic material	carbon black	1333-86-4	0.065	0.15		1540		
	plastics	epoxy resin	-	3.422	8.06		80603		
	inorganic material	silicondioxide	60676-86-0	18.307	43.14	51.35	431250	513393	
leadfinish	noble metal	gold	7440-57-5	0.006	0.01		132		
	noble metal	palladium	7440-05-3	0.006	0.01		132		
	noble metal	silver	7440-22-4	0.006	0.01		132		
	non noble metal	nickel	7440-02-0	0.264	0.62	0.65	6219	6615	
plating	noble metal	palladium	7440-05-3	0.007	0.02		166		
	noble metal	silver	7440-22-4	0.007	0.02		166		
	noble metal	gold	7440-57-5	0.007	0.02		166		
	non noble metal	nickel	7440-02-0	0.331	0.78	0.84	7799	8297	
glue	plastics	bismaleimide resin	-	0.123	0.29		2886		
	noble metal	silver	7440-22-4	0.490	1.15	1.44	11544	14430	
*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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