



Material Content Data Sheet



Sales Product Name				XMC1402-Q048X0128 AA		Issued		27. September 2017	
MA#				MA001507582					
Package				PG-VQFN-48-73		Weight*		123.47 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	1.928	1.56	1.56	15618	15618	
leadframe	inorganic material	phosphorus	7723-14-0	0.014	0.01		117		
	non noble metal	zinc	7440-66-6	0.058	0.05		467		
	non noble metal	iron	7439-89-6	1.154	0.93		9346		
wire	non noble metal	copper	7440-50-8	46.853	37.95	38.94	379470	389400	
	noble metal	palladium	7440-05-3	0.003	0.00		27		
	non noble metal	copper	7440-50-8	0.336	0.27	0.27	2721	2748	
encapsulation	organic material	carbon black	1333-86-4	0.212	0.17		1716		
	plastics	epoxy resin	-	11.086	8.98		89784		
	inorganic material	silicondioxide	60676-86-0	59.312	48.05	57.20	480372	571872	
leadfinish	noble metal	palladium	7440-05-3	0.000	0.00		3		
	noble metal	silver	7440-22-4	0.000	0.00		3		
	noble metal	gold	7440-57-5	0.001	0.00		5		
	non noble metal	nickel	7440-02-0	0.633	0.51	0.51	5129	5140	
plating	noble metal	silver	7440-22-4	0.001	0.00		5		
	noble metal	gold	7440-57-5	0.001	0.00		9		
	noble metal	palladium	7440-05-3	0.001	0.00		5		
	non noble metal	nickel	7440-02-0	1.069	0.87	0.87	8659	8678	
glue	plastics	epoxy resin	-	0.129	0.10		1047		
	noble metal	silver	7440-22-4	0.679	0.55	0.65	5497	6544	
*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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