



Material Content Data Sheet



Sales Product Name				XMC4104-Q48F128 BA		Issued		24. January 2018	
MA#				MA001414758					
Package				PG-VQFN-48-71		Weight*		135.54 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	10.110	7.46	7.46	74588	74588	
leadframe	inorganic material	phosphorus	7723-14-0	0.018	0.01		129		
	non noble metal	zinc	7440-66-6	0.070	0.05		518		
	non noble metal	iron	7439-89-6	1.403	1.04		10352		
wire	non noble metal	copper	7440-50-8	56.970	42.02	43.12	420323	431322	
	noble metal	palladium	7440-05-3	0.006	0.00		43		
	non noble metal	copper	7440-50-8	0.582	0.43	0.43	4291	4334	
encapsulation	organic material	carbon black	1333-86-4	0.184	0.14		1355		
	plastics	epoxy resin	-	9.614	7.09		70928		
	inorganic material	silicondioxide	60676-86-0	51.436	37.95	45.18	379489	451772	
leadfinish	noble metal	gold	7440-57-5	0.020	0.02		150		
	noble metal	palladium	7440-05-3	0.020	0.02		150		
	noble metal	silver	7440-22-4	0.020	0.02		150		
	non noble metal	nickel	7440-02-0	0.953	0.70	0.76	7031	7481	
plating	noble metal	palladium	7440-05-3	0.027	0.02		200		
	noble metal	silver	7440-22-4	0.027	0.02		200		
	noble metal	gold	7440-57-5	0.027	0.02		200		
	non noble metal	nickel	7440-02-0	1.276	0.94	1.00	9414	10014	
glue	plastics	epoxy resin	-	0.444	0.33		3278		
	noble metal	silver	7440-22-4	2.333	1.72	2.05	17211	20489	
*deviation	< 10%		Sum in total:			100.00		1000000	

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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