

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	XMC1404-Q048X0128 AA	**Issued**	02. June 2021
MA#	MA001507572		
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	15617	15617
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		9345	
	non noble metal	copper	7440-50-8	46.853	37.95	38.94	379463	389392
wires	noble metal	palladium	7440-05-3	0.003			28	
	non noble metal	copper	7440-50-8	0.339	0.27	0.27	2742	2770
encapsulation	organic material	carbon black	1333-86-4	0.212	0.17		1716	
	plastics	epoxy resin	-	11.086	8.98		89782	
	inorganic material	silicondioxide	60676-86-0	59.312	48.05	57.20	480362	571860
leadfinish	noble metal	palladium	7440-05-3	0.000			3	
	noble metal	silver	7440-22-4	0.000			3	
	noble metal	gold	7440-57-5	0.001			5	
	non noble metal	nickel	7440-02-0	0.633	0.51	0.51	5129	5140
plating	noble metal	palladium	7440-05-3	0.001			5	
	noble metal	silver	7440-22-4	0.001			5	
	noble metal	gold	7440-57-5	0.001			9	
	non noble metal	nickel	7440-02-0	1.069	0.87	0.87	8658	8677
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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