

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	XMC4104-Q48K128 BA	**Issued**	25. July 2019
MA#	MA001301744		
Package	PG-VQFN-48-71	**Weight***	135.28 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	7.47	7.47	74732	74732
leadframe	inorganic material	phosphorus	7723-14-0	0.018	0.01		130	
	non noble metal	zinc	7440-66-6	0.070	0.05		519	
	non noble metal	iron	7439-89-6	1.403	1.04		10372	
	non noble metal	copper	7440-50-8	56.970	42.13	43.23	421137	432158
wires	noble metal	palladium	7440-05-3	0.006	0.00		43	
	non noble metal	copper	7440-50-8	0.582	0.43	0.43	4300	4343
encapsulation	organic material	carbon black	1333-86-4	0.184	0.14		1359	
	plastics	epoxy resin	-	9.619	7.11		71105	
	inorganic material	silicondioxide	60676-86-0	51.465	38.04	45.29	380437	452901
leadfinish	noble metal	palladium	7440-05-3	0.001	0.00		4	
	noble metal	silver	7440-22-4	0.000	0.00		4	
	noble metal	gold	7440-57-5	0.001	0.00		6	
	non noble metal	nickel	7440-02-0	0.886	0.65	0.65	6548	6562
plating	noble metal	palladium	7440-05-3	0.001	0.00		5	
	noble metal	silver	7440-22-4	0.001	0.00		5	
	noble metal	gold	7440-57-5	0.001	0.00		9	
	non noble metal	nickel	7440-02-0	1.185	0.88	0.88	8756	8775
glue	plastics	epoxy resin	-	0.444	0.33		3285	
	noble metal	silver	7440-22-4	2.333	1.72	2.05	17244	20529
*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

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com