

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	XMC1301-Q040F0016 AB	**Issued**	24. January 2018
MA#	MA001687322		
Package	PG-VQFN-40-13	**Weight***	69.21 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	2.36	2.36	23613	23613
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.01		135	
	non noble metal	zinc	7440-66-6	0.037	0.05		540	
	non noble metal	iron	7439-89-6	0.748	1.08		10807	
	non noble metal	copper	7440-50-8	30.371	43.88	45.02	438826	450308
wire	noble metal	palladium	7440-05-3	0.003	0.00		40	
	non noble metal	copper	7440-50-8	0.274	0.40	0.40	3959	3999
encapsulation	organic material	carbon black	1333-86-4	0.103	0.15		1490	
	plastics	epoxy resin	-	5.395	7.80		77954	
	inorganic material	silicondioxide	60676-86-0	28.866	41.71	49.66	417078	496522
leadfinish	noble metal	palladium	7440-05-3	0.000	0.00		5	
	noble metal	silver	7440-22-4	0.000	0.00		4	
	noble metal	gold	7440-57-5	0.001	0.00		8	
	non noble metal	nickel	7440-02-0	0.544	0.79	0.79	7867	7884
plating	noble metal	silver	7440-22-4	0.000	0.00		5	
	noble metal	gold	7440-57-5	0.001	0.00		9	
	noble metal	palladium	7440-05-3	0.000	0.00		5	
	non noble metal	nickel	7440-02-0	0.609	0.88	0.88	8804	8823
glue	plastics	bismaleimide resin	-	0.123	0.18		1770	
	noble metal	silver	7440-22-4	0.490	0.71	0.89	7081	8851
*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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