



## Material Content Data Sheet



<b>Sales Product Name</b>		MA12070		<b>Issued</b>		9. January 2019		
<b>MA#</b>		MA003160372						
<b>Package</b>		PG-VQFN-64-7		<b>Weight*</b>		207.97 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	6.266	3.01	3.01	30128	30128
leadframe	inorganic material	phosphorus	7723-14-0	0.025	0.01		119	
	non noble metal	zinc	7440-66-6	0.099	0.05		475	
	non noble metal	iron	7439-89-6	1.975	0.95		9496	
wires	non noble metal	copper	7440-50-8	80.186	38.56	39.57	385572	395662
	noble metal	gold	7440-57-5	0.004	0.00		20	
	noble metal	palladium	7440-05-3	0.037	0.02		178	
encapsulation	non noble metal	copper	7440-50-8	1.329	0.64	0.66	6391	6589
	organic material	carbon black	1333-86-4	0.565	0.27		2716	
	plastics	epoxy resin	-	17.512	8.42		84206	
leadfinish	inorganic material	silicondioxide	60676-86-0	94.904	45.63	54.32	456341	543263
	non noble metal	tin	7440-31-5	2.832	1.36	1.36	13617	13617
plating	noble metal	silver	7440-22-4	0.760	0.37	0.37	3655	3655
glue	plastics	acrylic resin	-	0.295	0.14		1417	
	noble metal	silver	7440-22-4	1.179	0.57	0.71	5669	7086
*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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