



Material Content Data Sheet



Sales Product Name		SPA12N50C3		Issued		25. September 2017		
MA#		MA001371664						
Package		PG-TO220-3-313		Weight*		2210.72 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	7.017	0.32	0.32	3174	3174
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		409	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	copper	7440-50-8	902.149	40.81	40.86	408079	408611
wire	non noble metal	aluminium	7429-90-5	1.609	0.07	0.07	728	728
encapsulation	organic material	carbon black	1333-86-4	2.310	0.10		1045	
	plastics	epoxy resin	-	214.730	9.71		97131	
	inorganic material	silicondioxide	60676-86-0	923.483	41.78	51.59	417729	515905
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3608	3608
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	758	758
solder	non noble metal	antimony	7440-36-0	0.353	0.02		160	
	noble metal	silver	7440-22-4	0.883	0.04		399	
	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1039	1598
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.55	6.56	65532	65618
*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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