



Material Content Data Sheet



Sales Product Name		SPA04N80C3		Issued		20. July 2018		
MA#		MA001333494						
Package		PG-TO220-3-313		Weight*		2208.94 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	3.894	0.18	0.18	1763	1763
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	40.84	40.89	408408	408940
wire	non noble metal	aluminium	7429-90-5	0.740	0.03	0.03	335	335
encapsulation	organic material	carbon black	1333-86-4	2.314	0.10		1048	
	plastics	epoxy resin	-	215.334	9.75		97483	
	inorganic material	silicondioxide	60676-86-0	926.258	41.93	51.78	419321	517852
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3611	3611
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	759	759
solder	non noble metal	antimony	7440-36-0	0.236	0.01		107	
	noble metal	silver	7440-22-4	0.590	0.03		267	
	non noble metal	tin	7440-31-5	1.535	0.07	0.11	695	1069
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	6.56	6.57	65585	65671
*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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