



Material Content Data Sheet



Sales Product Name		SPA02N80C3		Issued		20. July 2018		
MA#		MA001634434						
Package		PG-TO220-3-313		Weight*		2216.11 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	2.280	0.10	0.10	1029	1029
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	iron	7439-89-6	0.903	0.04		408	
	non noble metal	copper	7440-50-8	902.149	40.71	40.76	407087	407617
	non noble metal	aluminium	7429-90-5	0.771	0.03	0.03	348	348
wire	non noble metal	aluminium	7429-90-5	0.771	0.03	0.03	348	348
encapsulation	organic material	carbon black	1333-86-4	2.316	0.10		1045	
	plastics	epoxy resin	-	216.957	9.79		97900	
	inorganic material	silicondioxide	60676-86-0	934.221	42.16	52.05	421559	520504
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3554	3554
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	747	747
solder	non noble metal	antimony	7440-36-0	0.165	0.01		74	
	noble metal	silver	7440-22-4	0.412	0.02		186	
	non noble metal	tin	7440-31-5	1.071	0.05	0.08	483	743
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		65	
	non noble metal	copper	7440-50-8	144.874	6.54	6.55	65373	65458
*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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