



Material Content Data Sheet



Sales Product Name		SPA20N60C3		Issued		12. February 2019		
MA#		MA001371812						
Package		PG-TO220-3-313		Weight*		2205.03 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	12.312	0.56	0.56	5584	5584
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.91	40.96	409133	409666
	non noble metal	aluminium	7429-90-5	2.978	0.14	0.14	1350	1350
wire	non noble metal	aluminium	7429-90-5	2.978	0.14	0.14	1350	1350
encapsulation	organic material	carbon black	1333-86-4	2.323	0.11		1054	
	plastics	epoxy resin	-	212.523	9.64		96381	
	inorganic material	silicondioxide	60676-86-0	911.603	41.33	51.08	413420	510855
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3572	3572
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.537	0.02		243	
	noble metal	silver	7440-22-4	1.342	0.06		609	
	non noble metal	tin	7440-31-5	3.489	0.16	0.24	1582	2434
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.57	6.58	65702	65788
*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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