



Material Content Data Sheet



Sales Product Name		SPP11N60C3		Issued		25. September 2017		
MA#		MA000976152						
Package		PG-TO220-3-1		Weight*		2033.14 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	0.35	0.35	3452	3452
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.09	40.14	401023	401546
wire	non noble metal	aluminium	7429-90-5	7.042	0.35	0.35	3463	3463
encapsulation	organic material	carbon black	1333-86-4	5.872	0.29		2888	
	plastics	epoxy resin	-	111.570	5.49		54876	
	inorganic material	silicondioxide	60676-86-0	469.769	23.11	28.89	231056	288820
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10556	10556
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120
solder	non noble metal	antimony	7440-36-0	0.353	0.02		174	
	noble metal	silver	7440-22-4	0.883	0.04		434	
	non noble metal	tin	7440-31-5	2.296	0.11	0.17	1129	1737
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.99	29.03	289929	290306
*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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