



Material Content Data Sheet



Sales Product Name		SPA02N80C3		Issued		22. October 2015		
MA#		MA000452860						
Package		PG-TO220-3-111		Weight*		2246.31 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	1015	1015
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		306	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.55	30.59	305488	305886
wire	non noble metal	aluminium	7429-90-5	6.853	0.31	0.31	3051	3051
encapsulation	organic material	carbon black	1333-86-4	2.225	0.10		991	
	plastics	epoxy resin	-	208.303	9.27		92731	
	inorganic material	silicondioxide	60676-86-0	896.869	39.91	49.28	399261	492984
leadfinish	non noble metal	tin	7440-31-5	8.041	0.36	0.36	3580	3580
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.165	0.01		73	
	noble metal	silver	7440-22-4	0.412	0.02		183	
	non noble metal	tin	7440-31-5	1.071	0.05	0.08	477	733
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.24	19.27	192364	192615
*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 2011/65/EU (RoHS) and does not use any exemption.

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