



Material Content Data Sheet



Sales Product Name		SPA21N50C3		Issued		29. August 2013		
MA#		MA001149802						
Package		PG-TO220-3-121		Weight*		2238.23 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	11.919	0.53	0.53	5325	5325
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.66	30.70	306592	306991
wire	non noble metal	aluminium	7429-90-5	2.591	0.12	0.12	1158	1158
encapsulation	organic material	carbon black	1333-86-4	2.250	0.10		1005	
	plastics	epoxy resin	-	205.745	9.19		91923	
	inorganic material	silicondioxide	60676-86-0	882.447	39.43	48.72	394262	487191
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3548	3548
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	0.524	0.02		234	
	noble metal	silver	7440-22-4	1.310	0.06		585	
	non noble metal	tin	7440-31-5	3.406	0.15	0.23	1522	2341
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	19.31	19.34	193059	193310
*deviation	< 10%					Sum in total:	100,00	1000000

Important Remarks:

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