



Material Content Data Sheet



Sales Product Name		SPA20N65C3		Issued		28. August 2013		
MA#		MA000737802						
Package		PG-TO220-3-121		Weight*		2242.51 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	0.55	0.55	5490	5490
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	30.60	30.64	306006	306404
wire	non noble metal	aluminium	7429-90-5	2.653	0.12	0.12	1183	1183
encapsulation	organic material	carbon black	1333-86-4	2.188	0.10		976	
	plastics	epoxy resin	-	205.700	9.17		91727	
	inorganic material	silicondioxide	60676-86-0	886.259	39.52	48.79	395208	487912
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3541	3541
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	0.537	0.02		239	
	noble metal	silver	7440-22-4	1.342	0.06		598	
	non noble metal	tin	7440-31-5	3.489	0.16	0.24	1556	2393
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	iron	7439-89-6	0.433	0.02		193	
	non noble metal	copper	7440-50-8	432.110	19.27	19.30	192690	192941
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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