



Material Content Data Sheet



Sales Product Name		SPA12N50C3		Issued		31. July 2018		
MA#		MA000462190						
Package		PG-TO220-3-111		Weight*		2238.56 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	0.31	0.31	3135	3135
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	iron	7439-89-6	0.687	0.03		307	
	non noble metal	copper	7440-50-8	686.221	30.65	30.69	306546	306945
	non noble metal	aluminium	7429-90-5	1.317	0.06	0.06	588	588
wire	non noble metal	aluminium	7429-90-5	1.317	0.06	0.06	588	588
encapsulation	organic material	carbon black	1333-86-4	2.224	0.10		994	
	plastics	epoxy resin	-	206.833	9.24		92396	
	inorganic material	silicondioxide	60676-86-0	889.596	39.75	49.09	397397	490787
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3548	3548
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	136	137
solder	non noble metal	antimony	7440-36-0	0.353	0.02		158	
	noble metal	silver	7440-22-4	0.883	0.04		395	
	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1026	1579
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	19.30	19.33	193030	193281
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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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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