



Material Content Data Sheet



Sales Product Name		SPA15N60CFD		Issued		16. August 2016		
MA#		MA000682828						
Package		PG-TO220-3-121		Weight*		2240.31 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	9.195	0.41	0.41	4104	4104
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	30.63	30.67	306307	306706
wire	non noble metal	aluminium	7429-90-5	26.479	1.18	1.18	11819	11819
encapsulation	organic material	carbon black	1333-86-4	2.145	0.10		957	
	plastics	epoxy resin	-	201.589	9.00		89983	
	inorganic material	silicondioxide	60676-86-0	868.546	38.76	47.86	387690	478631
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3545	3545
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	0.432	0.02		193	
	noble metal	silver	7440-22-4	1.080	0.05		482	
	non noble metal	tin	7440-31-5	2.807	0.13	0.20	1253	1928
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	19.29	19.32	192880	193131
*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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